

1 2 3 4 5 6 7 8

Section **DESCRIPTION**

1 Table of Contents and Legend

2 Change History

3 Audio System Wiring (all options)

4 Antenna connections

5 Infotainment non-Antenna connections

6 MCU/Infotainment vehicle interfaces

7 Security, Passive Entry, Horns

8 Chassis - Stability and ABS, park brake

9 Chassis - Power Steering and Steering wheel controls

10 Chassis - Air suspension system

11 Body - Door / Window Controls, Left Side

12 Body - Door / Window Controls, Right Side

13 Body - Exterior Lights, Front

14 Body - Exterior Lights, Rear, including Tailgate

15 Body - Front Cargo Hatch

16 Powertrain - HV Battery and Chargers

17 Body - Exterior Lights, Front

18 Body - Exterior Lights, Rear, including Tailgate

19 Body - Front Cargo Hatch

20 Body - Rear Cargo Hatch / Power Liftgate

21 HVAC - Foundation: Controller, Sensors, Valves, Pumps, Solenoids and Inlet Louvers

22 HVAC - Cabin Functions

23 HVAC - Cold Weather Package Content

24 Powertrain - HVL and High Voltage architecture

25 Body - Wiper/Washer System

26 Passive Safety Restraints System

27 Body - Powered Sunroof

28 Powertrain - Drive Inverter, Accelerator Pedal

29 Body - LF Seat

30 Body - RF Seat

31 Body - Side and Rear-View Mirrors

32 Body - Interior Lighting

33 Parking System including Rear View

34 Advanced Safety - Blind Zone and Forward Camera, Front Radar

35 Chassis CAN Network

36 Body CAN Network

37 Body Fault-Tolerant CAN Network

38 PowerTrain CAN Network

39 Diagnostic Connections

40 12V Power Distribution

41 Ground Distribution

42 Layout and Function of Fuse/Relay Boxes

Table 1: Abbreviations

LF	Left Front	RR	Right Rear
RF	Right Front	MF	Middle Front
LR	Left Rear	-	-

Table 2: Multicore Connector Descriptors

LEDHC	LF Door Harness Connector	CCHC	Center Console Harness Connector
LRDHC	LR Door Harness Connector	IPHC(L/R)	Instrument Panel Harness Connector (Left/Right)
RFDHC	RF Door Harness Connector	RSFHC	Rear Subframe harness connector
RRDHC	RR Door Harness Connector	WW%	WW=wire-to-wire %>from-to designator
TGHC	TailGate Harness Connector	-	-

Table 3: Harness Designators

A	Body Harness, Left Floor	N	Front Harness, Right Side
B	Body Harness, Right Floor	P	Front Passenger (RF) Door Harness
C	Center Console	Q	Front Harness, Left side
D	Driver (LF) Door Harness	R	LR Door Harness
E	Sunroof Subsystem Harness	S	RR Door Harness
F	Front Bumper Harness	T	Tailgate Harness - Right
G	Rear Bumper Harness	U	Tailgate Harness - Left
H	High Voltage Wiring (for reference only)	V	HVAC Unit Subharness (part of assembly)
J	Instrument Panel (Dashpad) Harness	W	Steering Wheel Harness (from Clockspring out)
K	Headliner	X	Rear subframe subharness
L	Front End Module	Y	Ibd
M	Main Harness, Lower IP and Front Trunk area	Z	Single Cables - Each circuit is a separate assembly

Table 4: Wire Color Designators

BK	Black	LB	Light Blue	RD	Red	NA	coax-center
BR	Brown	LG	Light Green	TN	Tan	SH	coax-shield
DB	Dark Blue	OR	Orange	WT	White	-	-
DG	Dark Green	PK	Pink	YL	Yellow	-	-
GY	Gray	VT	Violet (Purple)	-	-	-	-

Striped wires are indicated by base-color code ** then stripe color code. "BR-BK" indicates a brown wire with a black stripe.

Table 5: Wire Type Designators

TWP	SAE J1128 TWP - thin-wall 105C rated	TXL	SAE J1128 TXL : thin-wall 125C rated
STX	SAE J1127 STX : thin-wall 125C rated	SGX	SAE J1127 SGX : general purpose 125C rated
-f	flexible type (add to any type) = small strand	RFXFA	SAE J1128 TXL-f : thin-wall high-flex 125C rated
CAVS	JASO D-611 CAVS specification wire, 85C		

General Notes:

- 1) Switches [Relays] are shown in their inactive [de-energized] state.
- 2) Splices may be split across pages for visual clarity with respect to the function or description of the wire.
- 3) Global connectors are split across multiple pages for clarity. There is no overall reference in this document for the signals routed to a specific connector.
- 4) Wire sizes are specified in mm² cross-sectional area (CSA) per SAE J1128/9. Size Shows: Wire Specification Usage: Size Shows: Wire Specification Usage: SAE J1128 TXL: thin-wall 105C rated SAE J1128 TXL: thin-wall 125C rated

0.35	0.35	0.35	0.35
0.35	0.35	0.35	0.35
0.5	0.5	0.5	0.5
0.75	0.75	0.75	0.75
1.0	1.0	1.0	1.0
2.0	2.0	2.0	2.0
3.0	3.0	3.0	3.0

 SAE J1127 SGX: general purpose 125C rated

0.35	0.35	0.35	0.35
0.35	0.35	0.35	0.35
0.5	0.5	0.5	0.5
0.75	0.75	0.75	0.75
1.0	1.0	1.0	1.0
2.0	2.0	2.0	2.0
3.0	3.0	3.0	3.0

 SAE J1128 TXL-f: thin-wall high-flex 125C rated

0.35	0.35	0.35	0.35
0.35	0.35	0.35	0.35
0.5	0.5	0.5	0.5
0.75	0.75	0.75	0.75
1.0	1.0	1.0	1.0
2.0	2.0	2.0	2.0
3.0	3.0	3.0	3.0
- 5) Wire specification: 60V, thin-wall PVC (SAE TWP type or equivalent), unless otherwise specified in wire label. Default wire type to be rated 60VDC/25VAC and -40°C to 105°C operating temperature. See sheet 43 for further details and to correlate specific cabling types to harness application. Threaded crimp: 0.35mm² to 1.0mm² of about wire by harness manufacturer. P=30mm +/-5mm for CSA<1.0, P=60mm +/-5mm for CSA>1.0
- 6) Unless otherwise specified, terminal plating is to be Tin or Pre-Tin
- 7) For connectors with multiple instances of the same wire color in a similar or the same size, the terminal may be inserted into the exact cavity specified. This applies only to joint connectors in the G### range or X700-X799 range, where the wires are connected together internally by the joint connector.
- 8) Inline connector gender specification is based on the terminal type.
- 9) Inline connectors with "T" suffix have female, receptacle or socket terminals.
- 10) Inline connectors with "T" suffix have female, receptacle or socket terminals.

Diagram: Wire Splicing and Multi-Way Connector Examples

Table of Contents

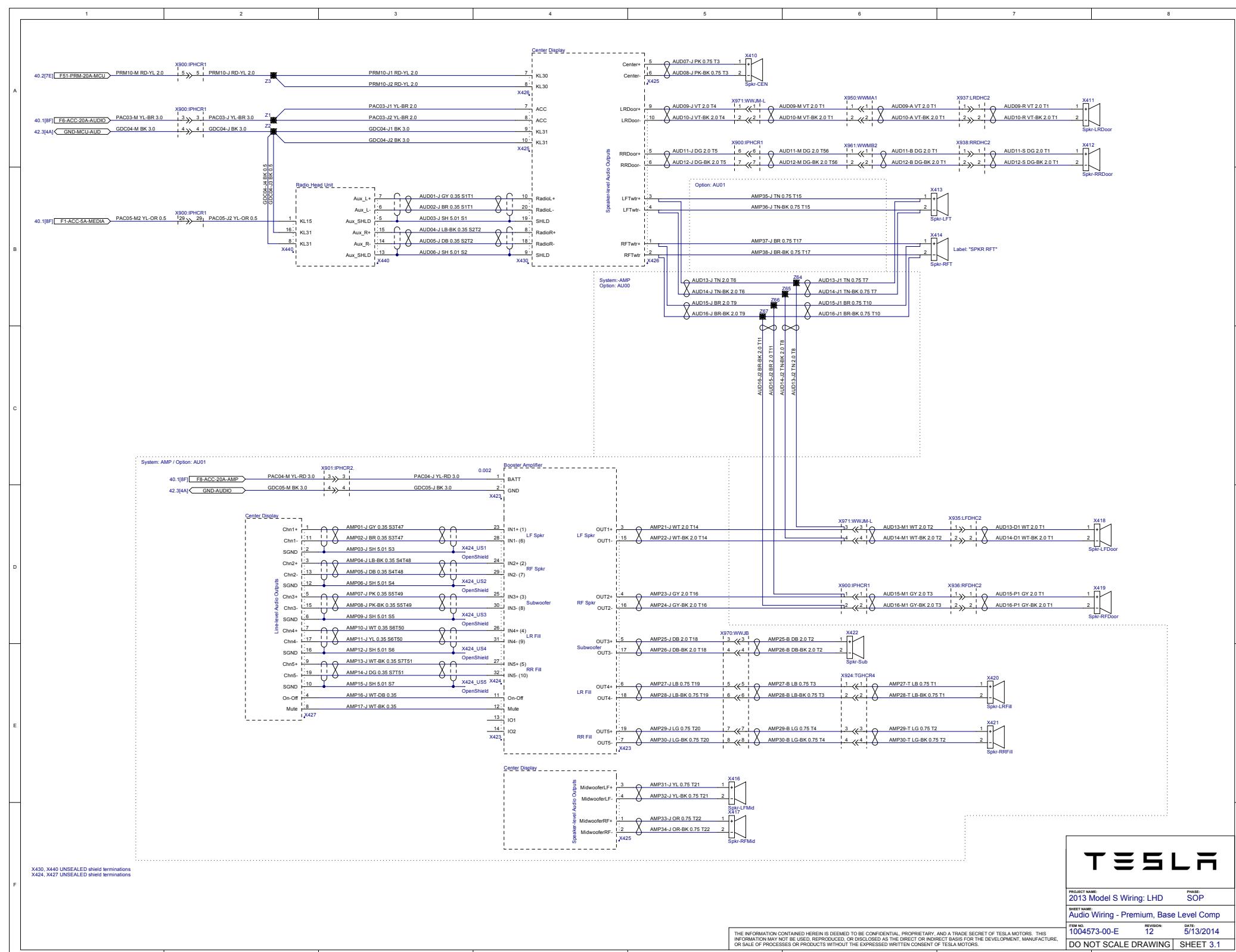
ITEM NO: 1004573-00-E REVISION: 12 DATE: 5/13/2014

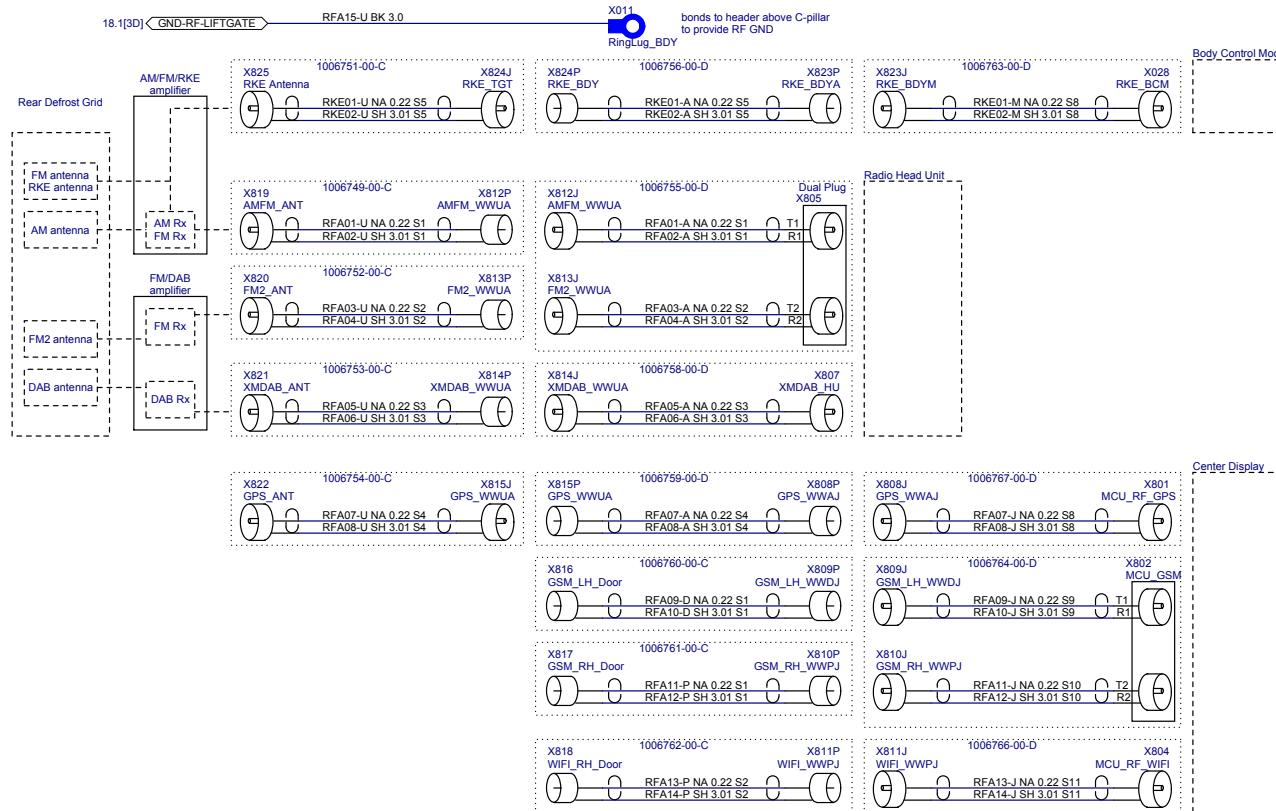
DO NOT SCALE DRAWING SHEET 1.1

TESLA

PRODUCT NAME: 2013 Model S Wiring: LHD PHASE: SOP

SHEET NAME: Table of Contents



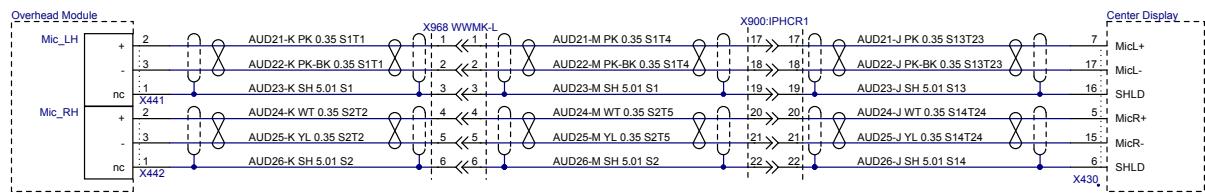


TESLA

PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP
 SHEET NAME: Antenna Connections
 ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014
 DO NOT SCALE DRAWING SHEET 5.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

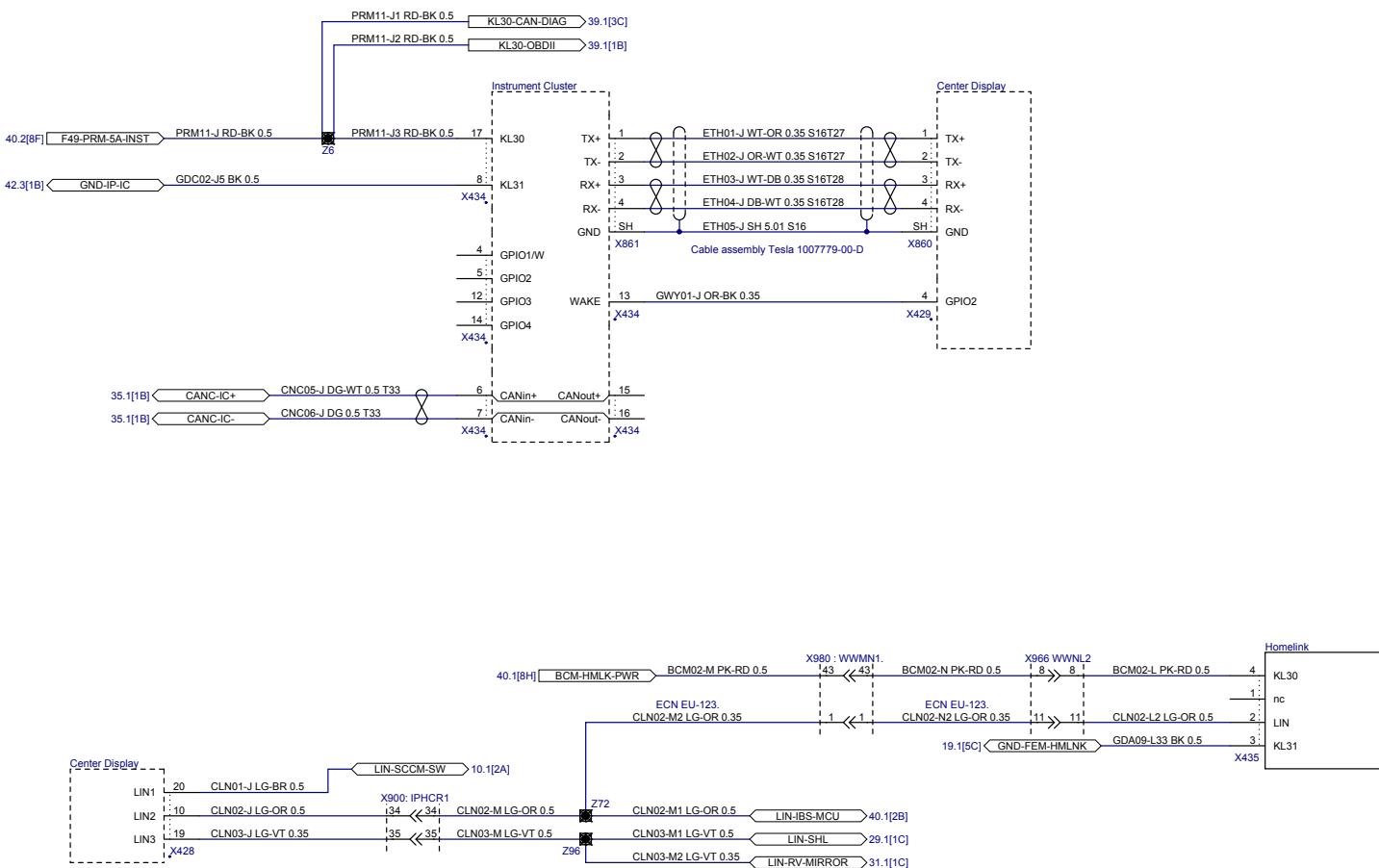
X430, X441, X442, X968 (1-6), X900 (17-21) UNSEALED shield terminations



T E S L A

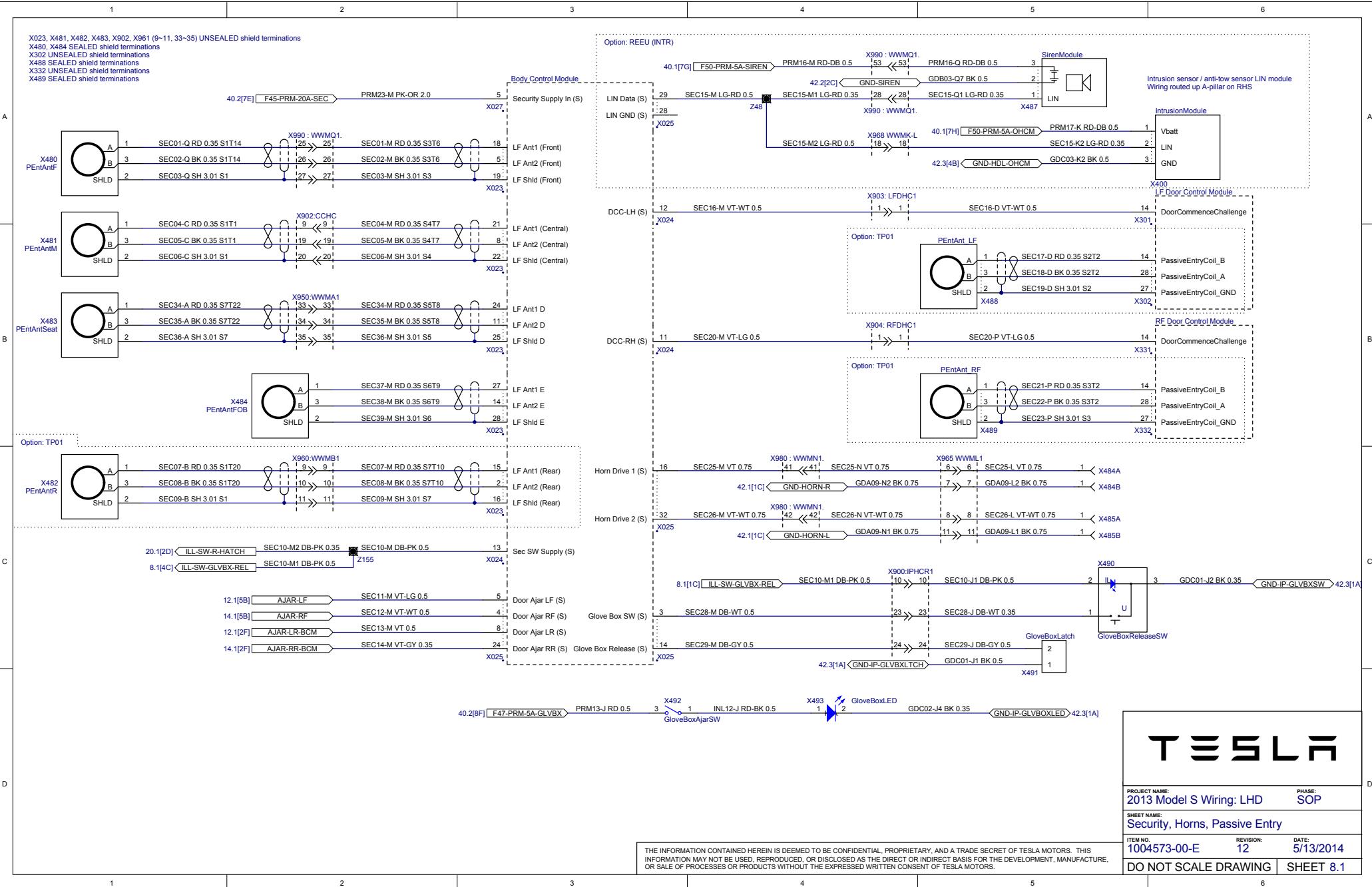
PROJECT NAME:	2013 Model S Wiring: LHD	PHASE:	SOP
SHEET NAME:			
Center Display - Microphone and USB			
ITEM NO.	1004573-00-E	REVISION:	12
DATE:	5/13/2014		
DO NOT SCALE DRAWING		SHEET	6.1

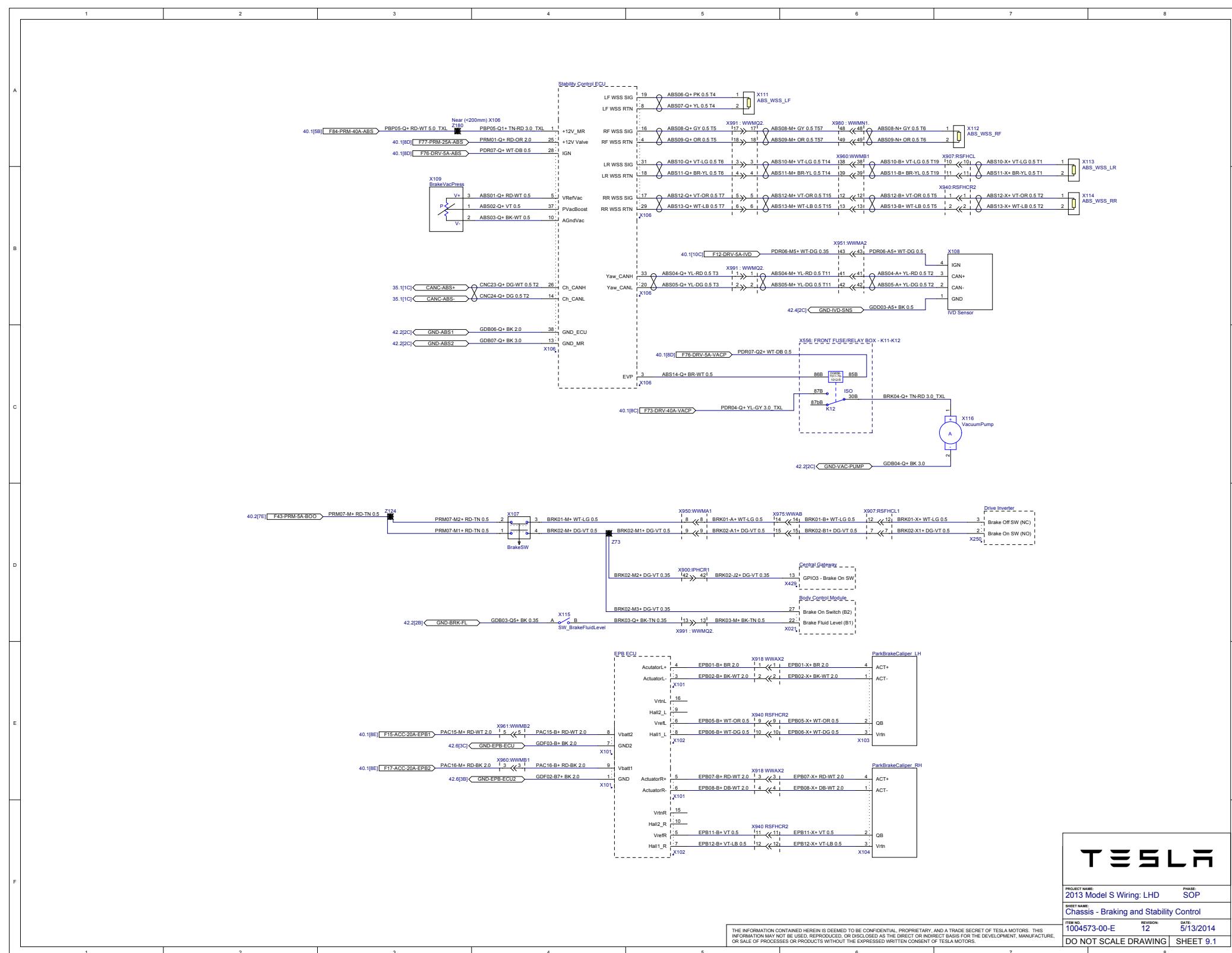
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

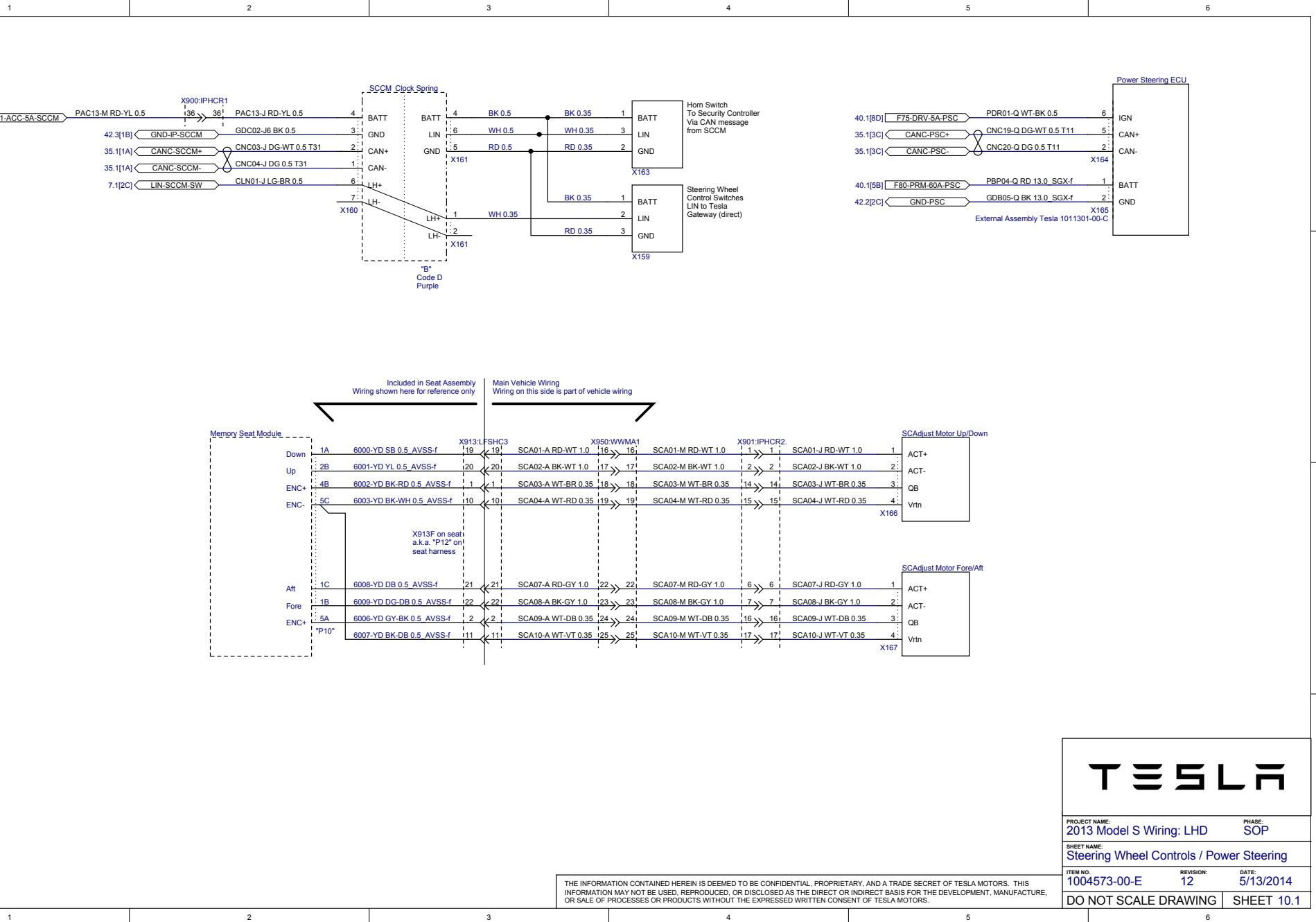


THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES, OR PRODUCTS, WITHOUT THE EXPRESSED, WRITTEN, CONSENT OF TESLA MOTORS.

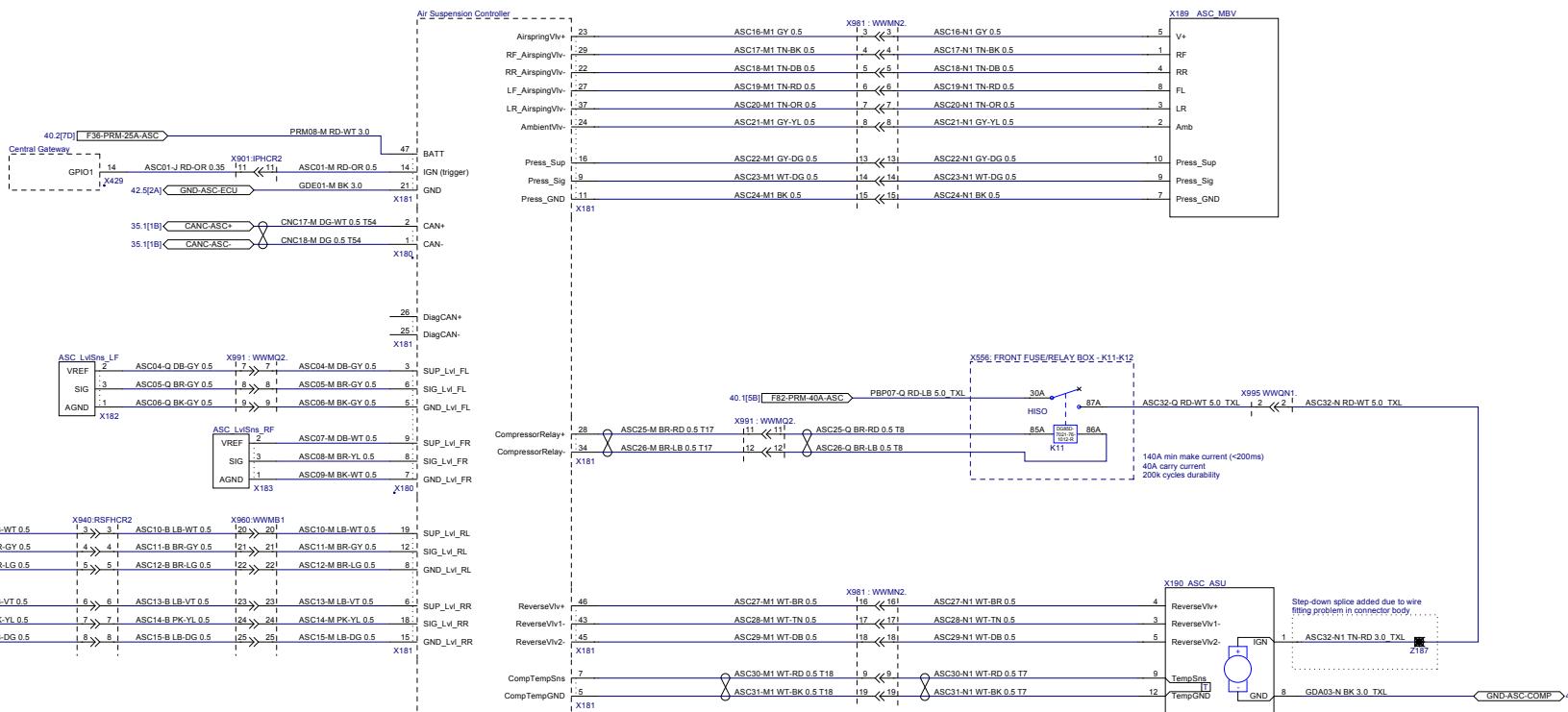
PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP	
SHEET NAME: Center Disp. - Inst. Cluster and LIN Interface		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 7.1





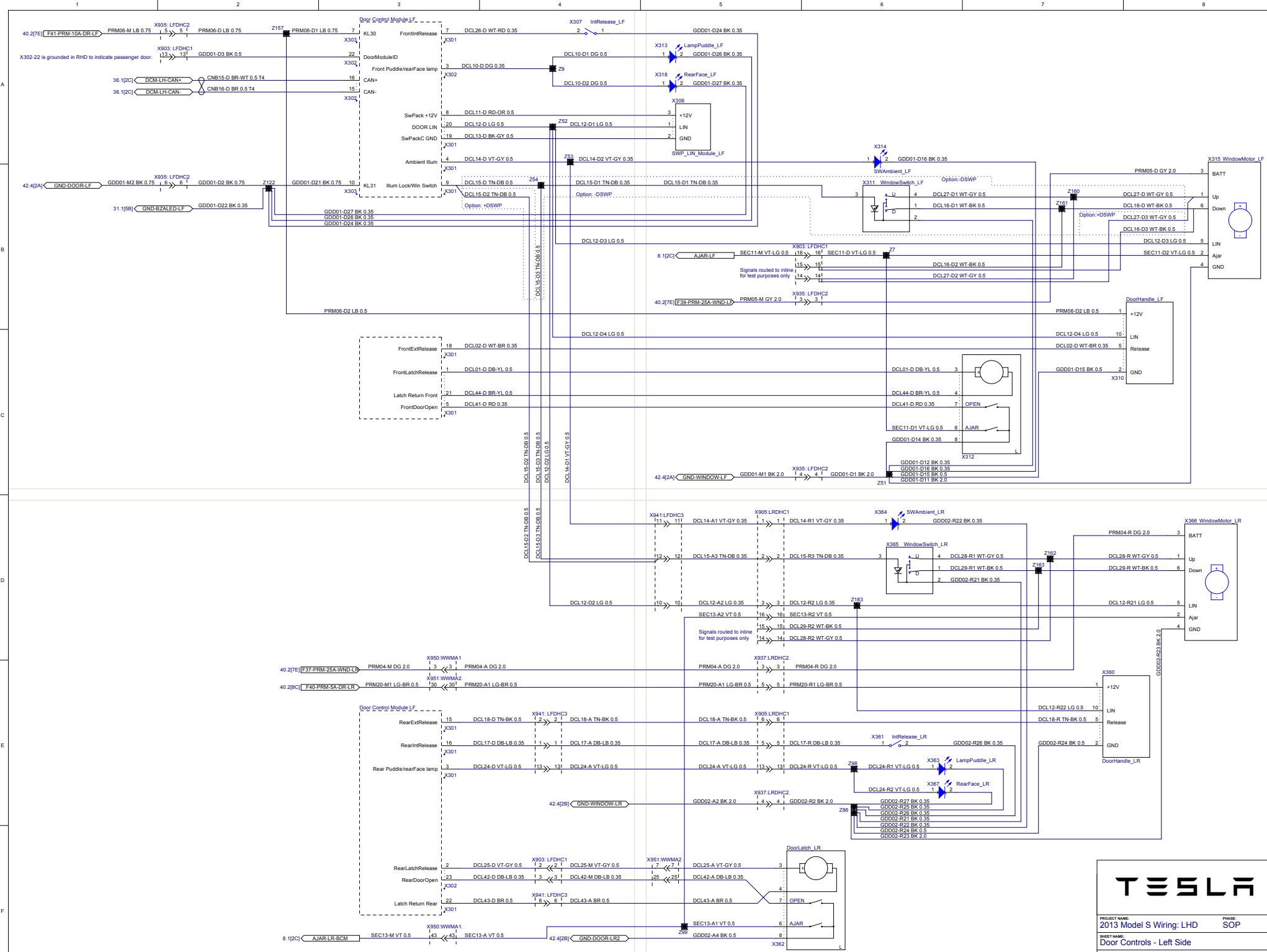


A B C D E F



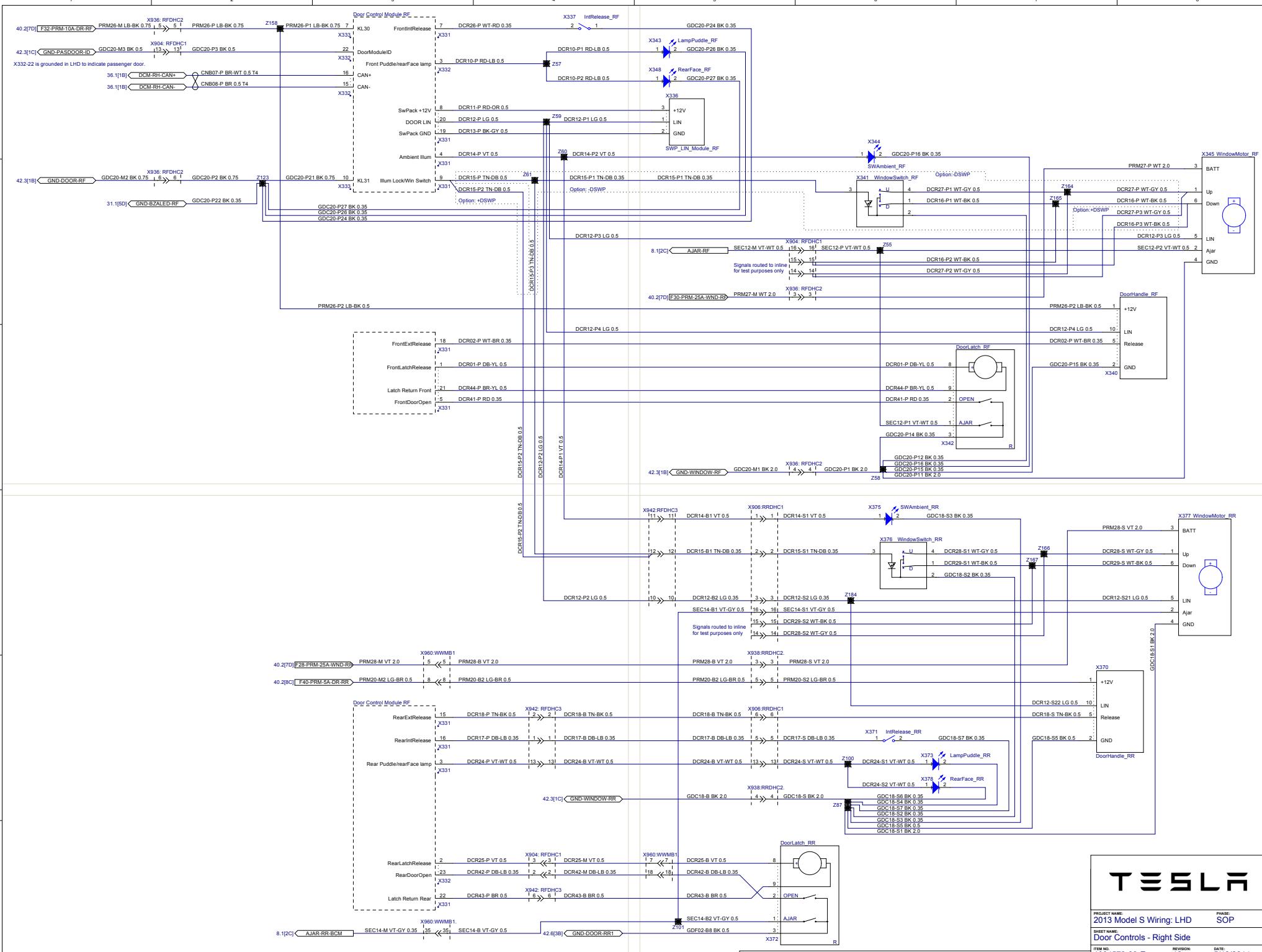
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA
 PRODUCT NAME: 2013 Model S Wiring: LHD
 SHEET NAME: Chassis - Air Suspension Subsystem
 ITEM NO: 1004573-00-E
 REVISION: 12
 DATE: 5/13/2014
 DO NOT SCALE DRAWING
 SHEET 11.1



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA	
PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SUP
SHEET NAME: Door Controls - Left Side	
ITEM NO: 1004573-00-E	REVISION: 12
DATE: 5/13/2013	
DO NOT SCALE DRAWING	
SHEET	

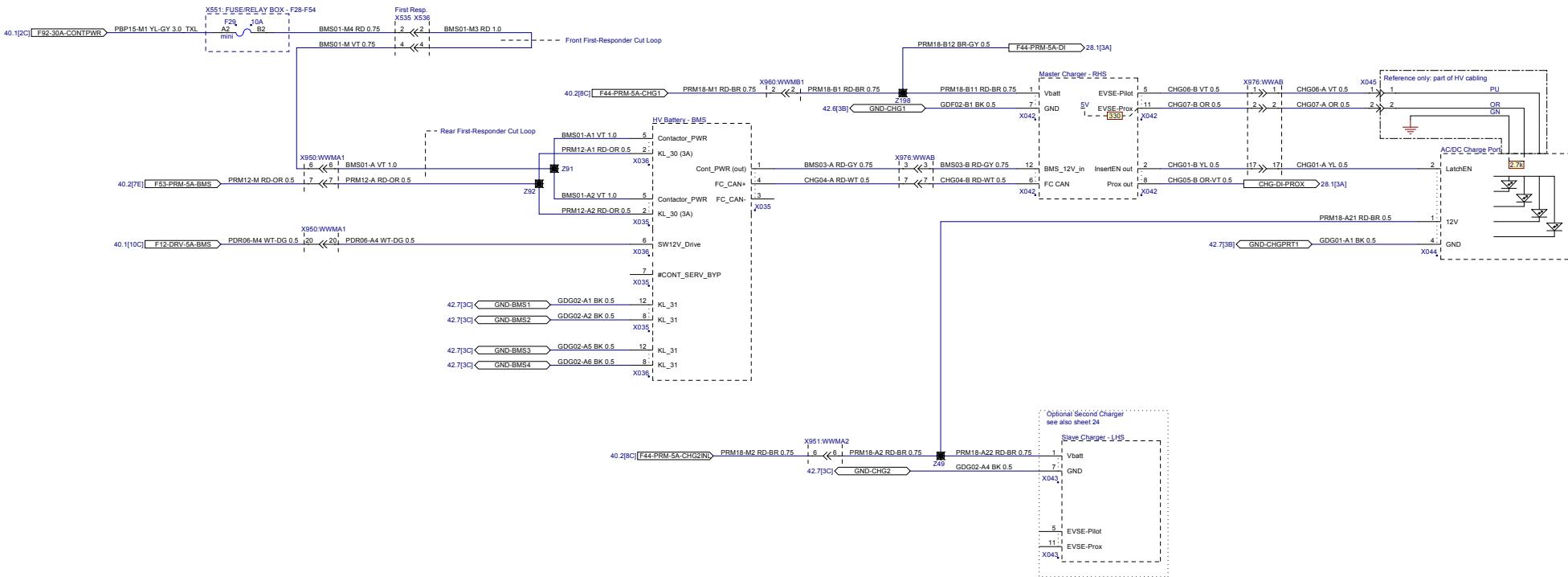


THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

1004573-00-E 12 5/13/2014
DO NOT SCALE DRAWING SHEET 14.1

8

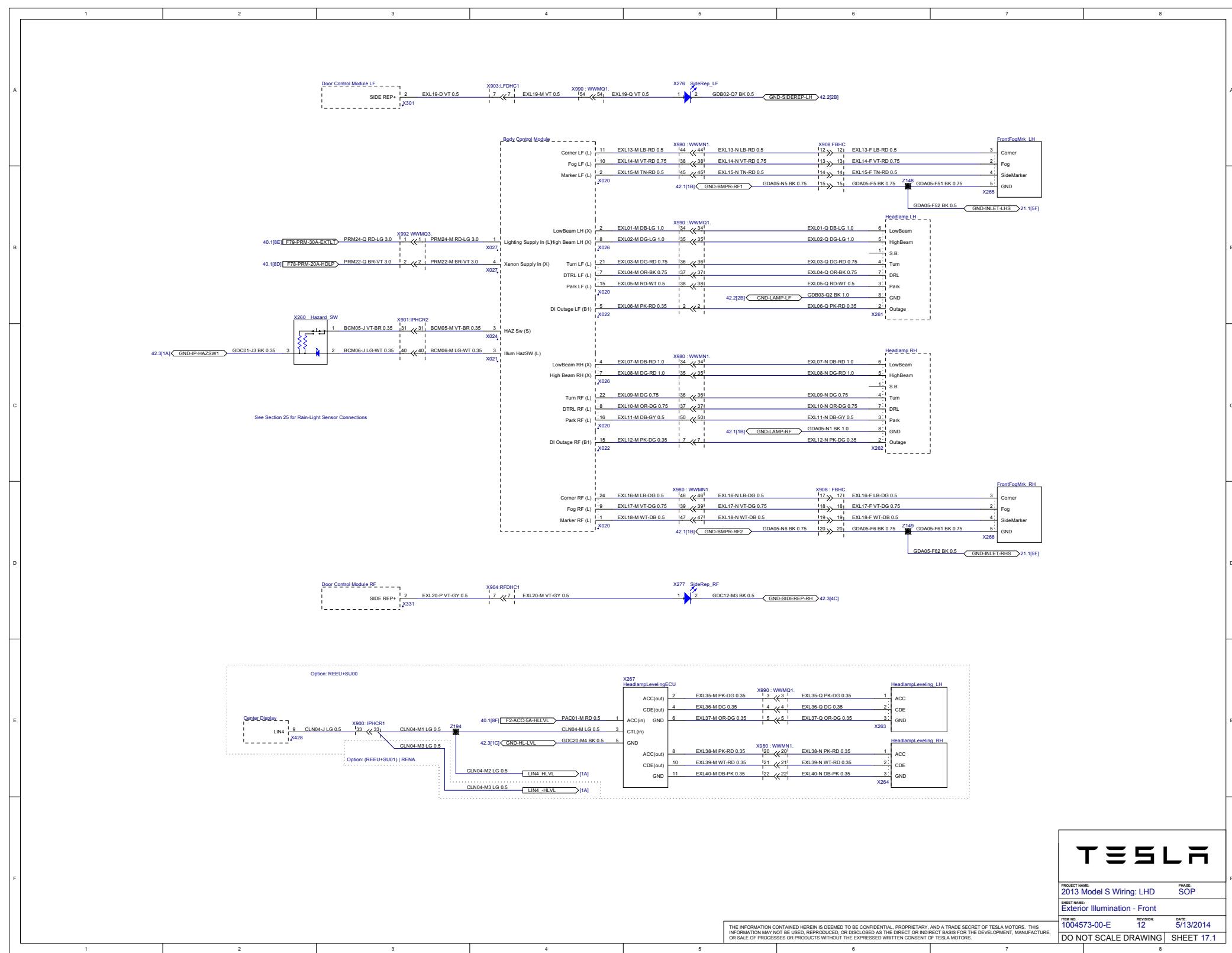
For more information, contact the Office of the Vice President for Research and Economic Development at 319-273-2500 or research@uiowa.edu.

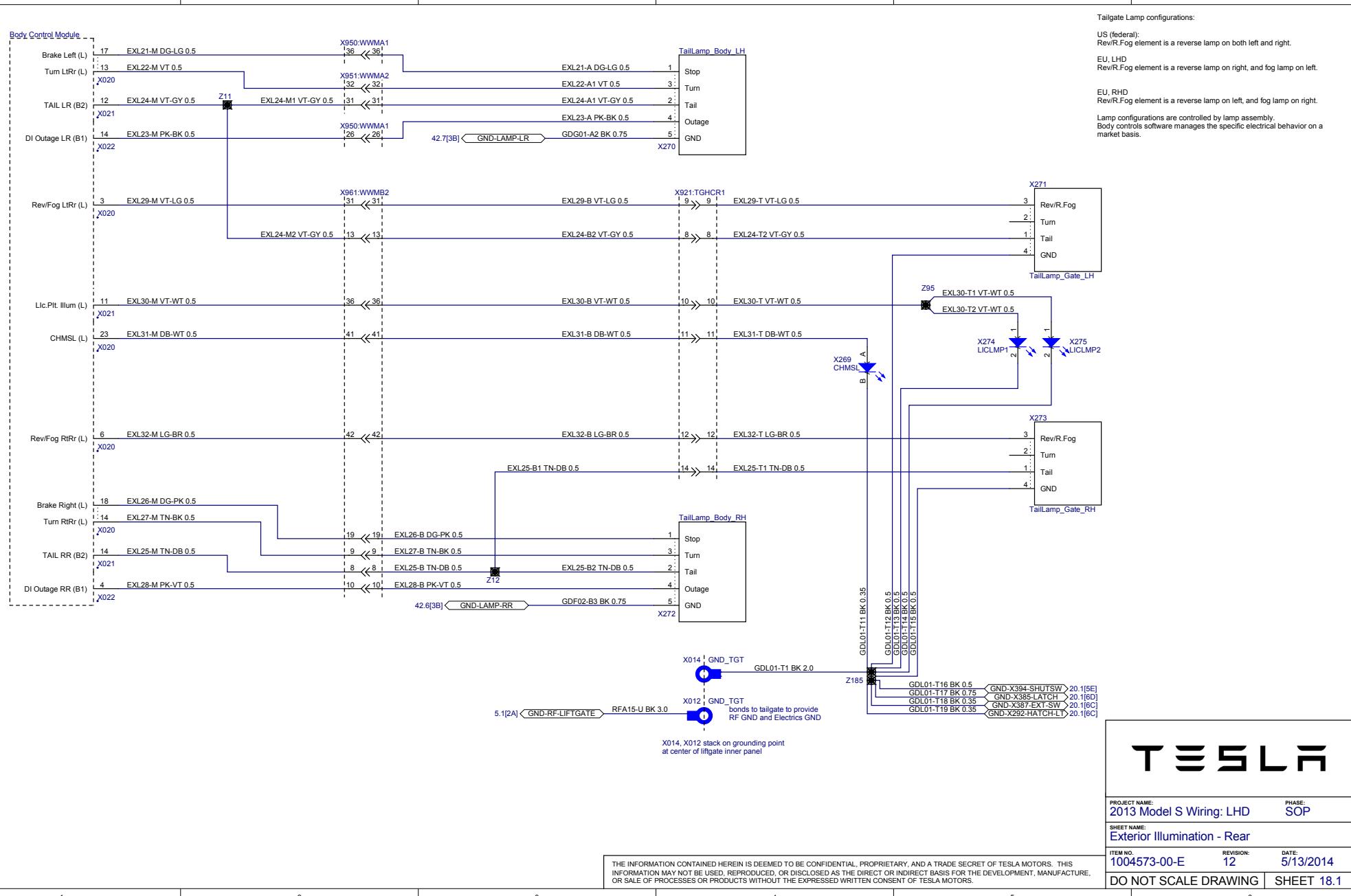


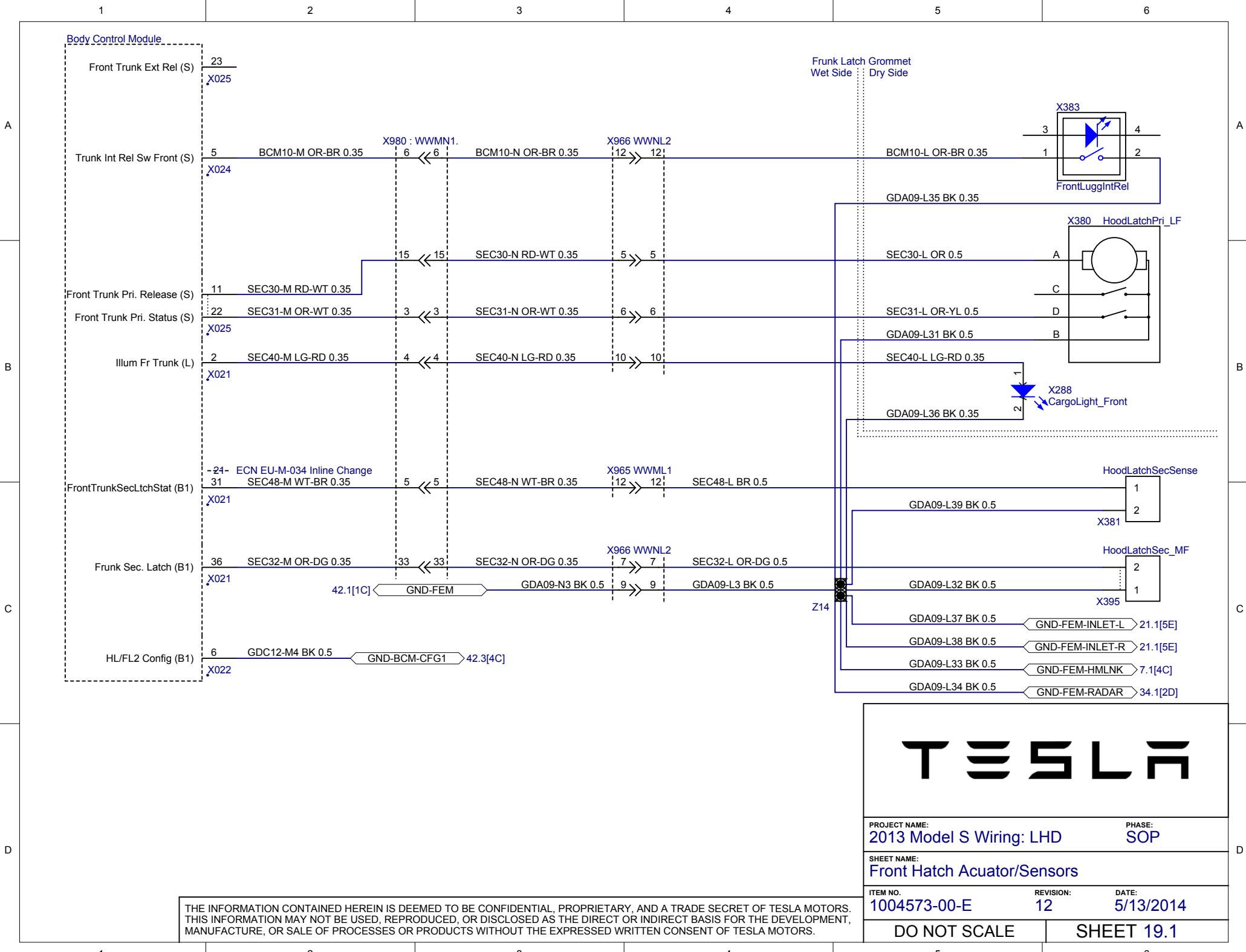
See also section 24 and section 28

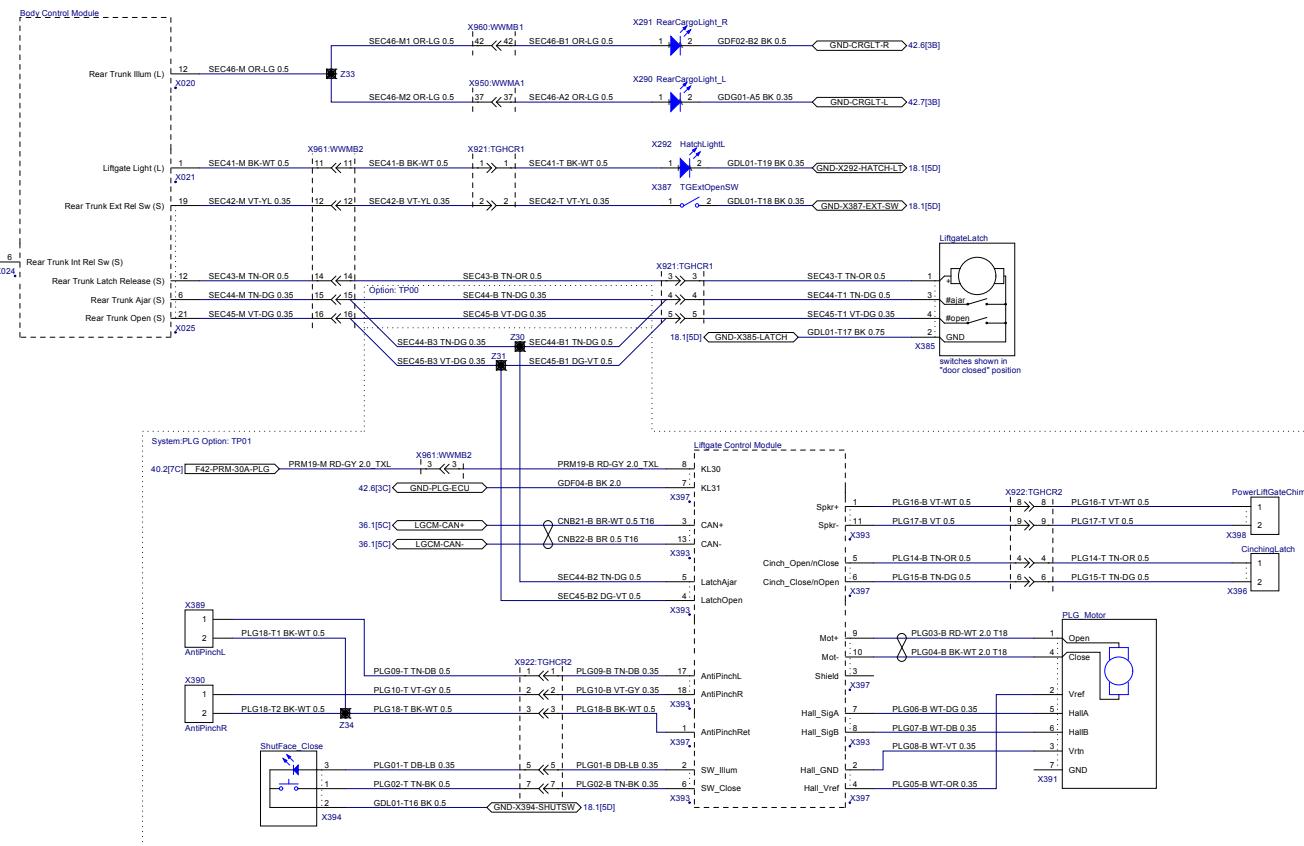
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

PROJECT NAME:		PHASE:	
2013 Model S Wiring: LHD		SCP	
SHEET NAME:			
Energy System - Charger Logic Connections			
ITEM NO:		PERIOD:	
1004573-00-E		12	
DATE:		5/13/2014	
DO NOT SCALE DRAWING			
SHEET 16.1			

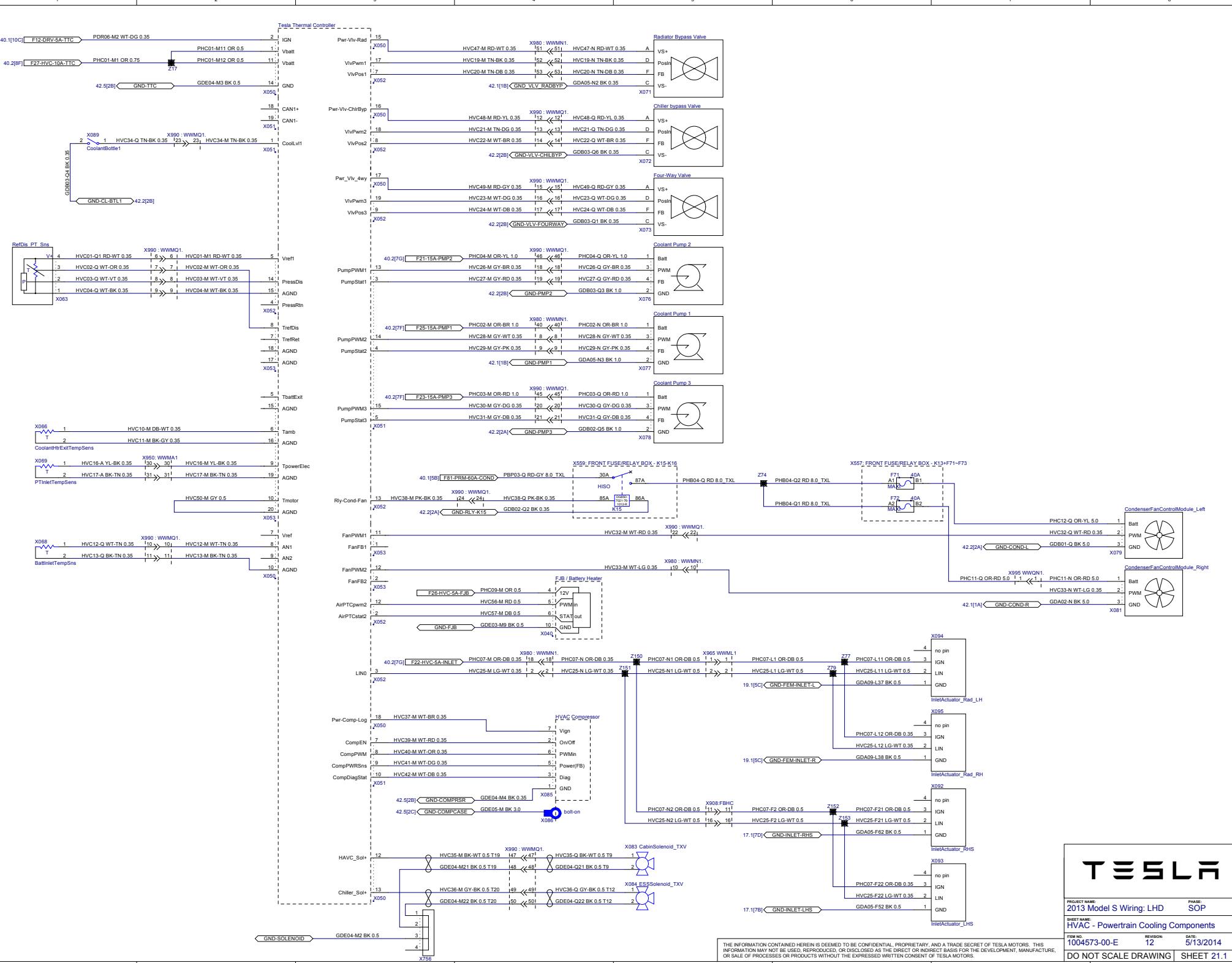


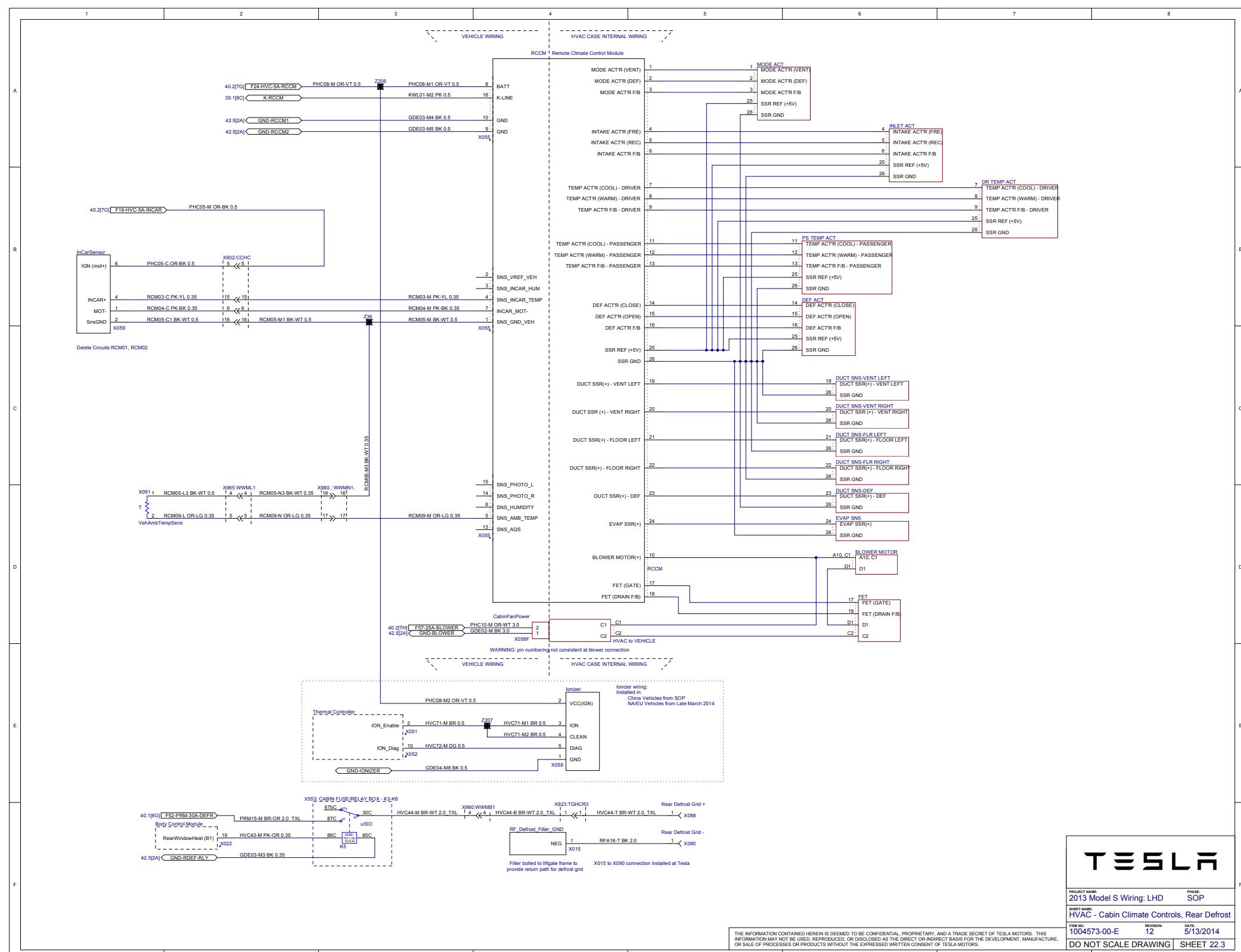


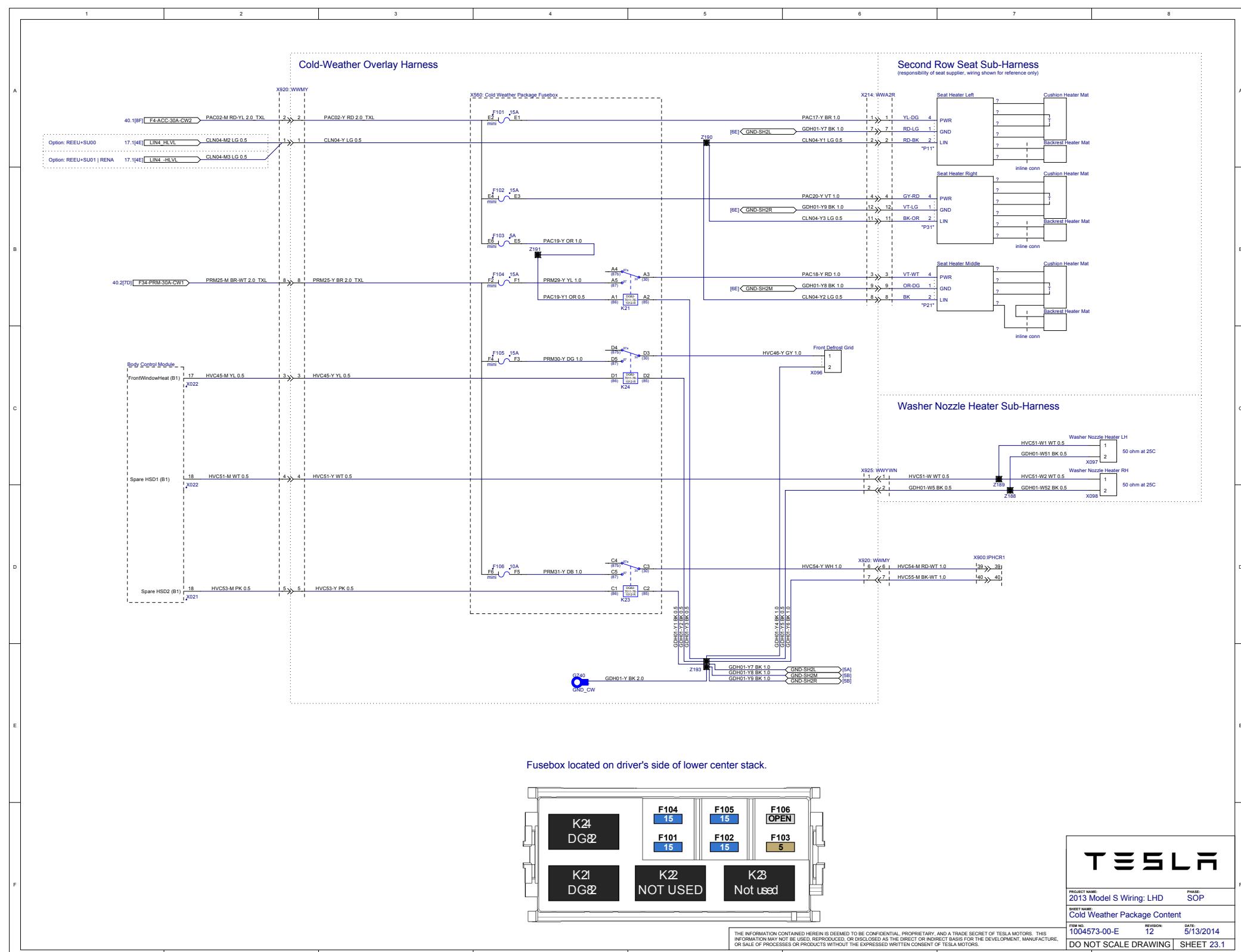


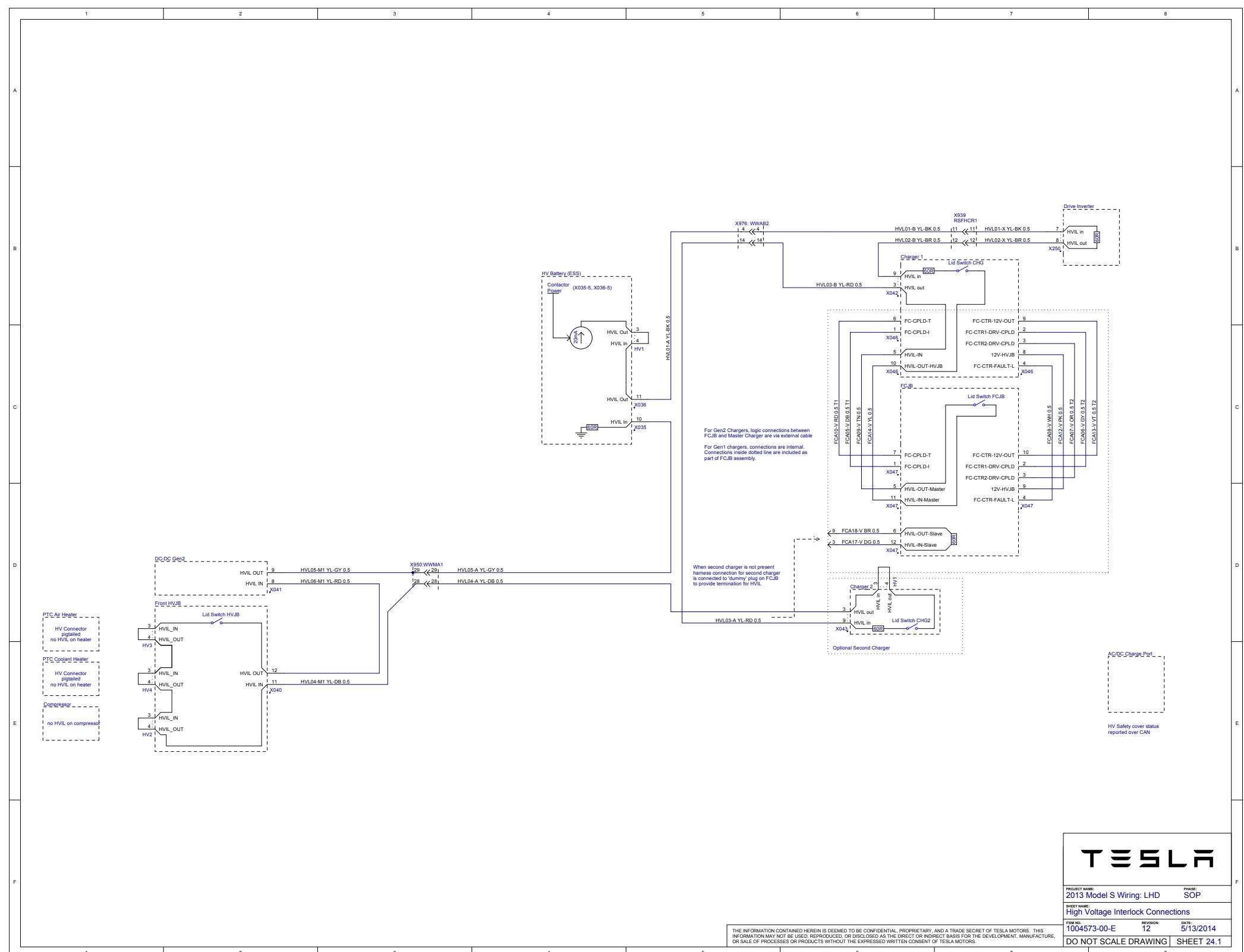


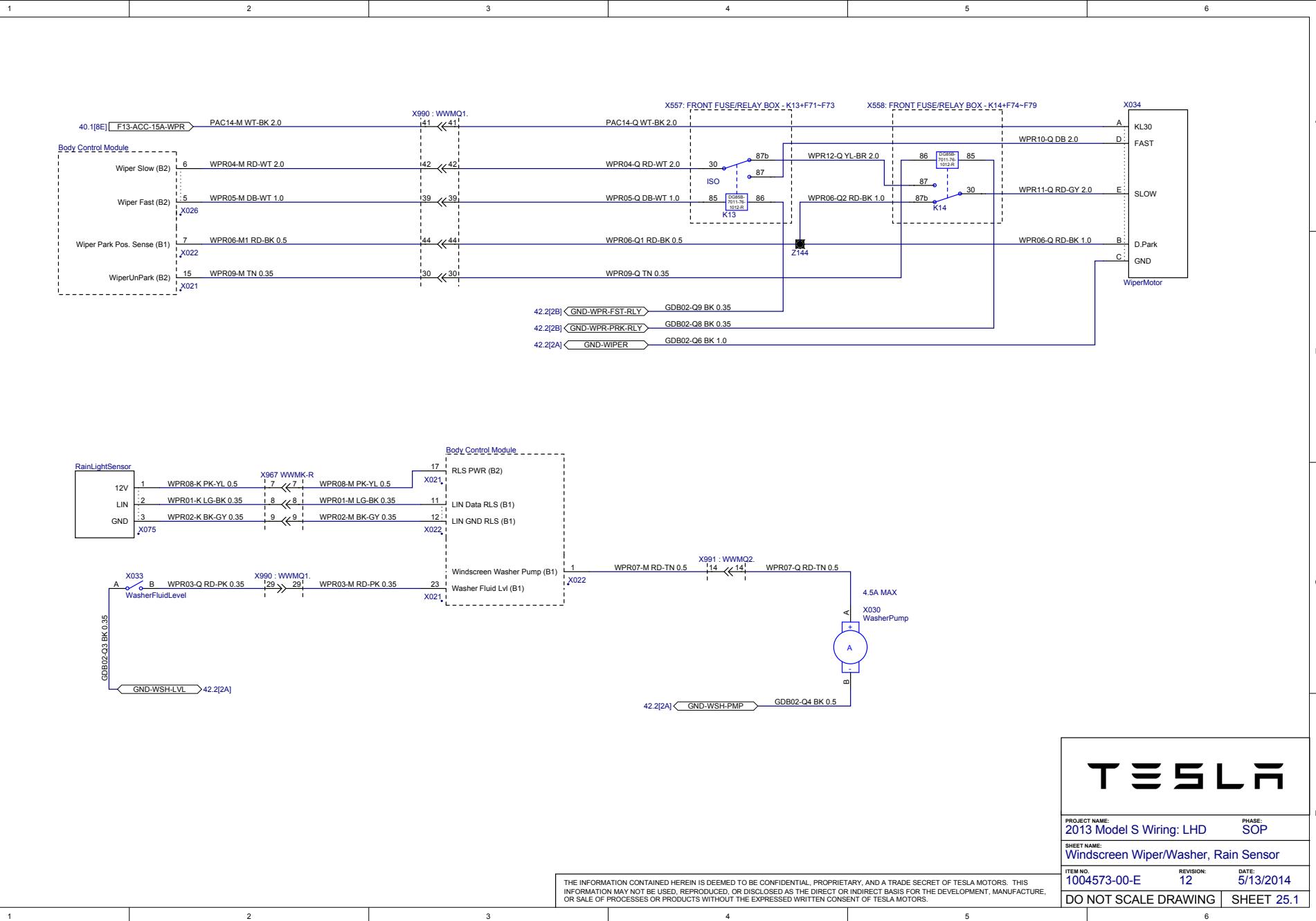
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

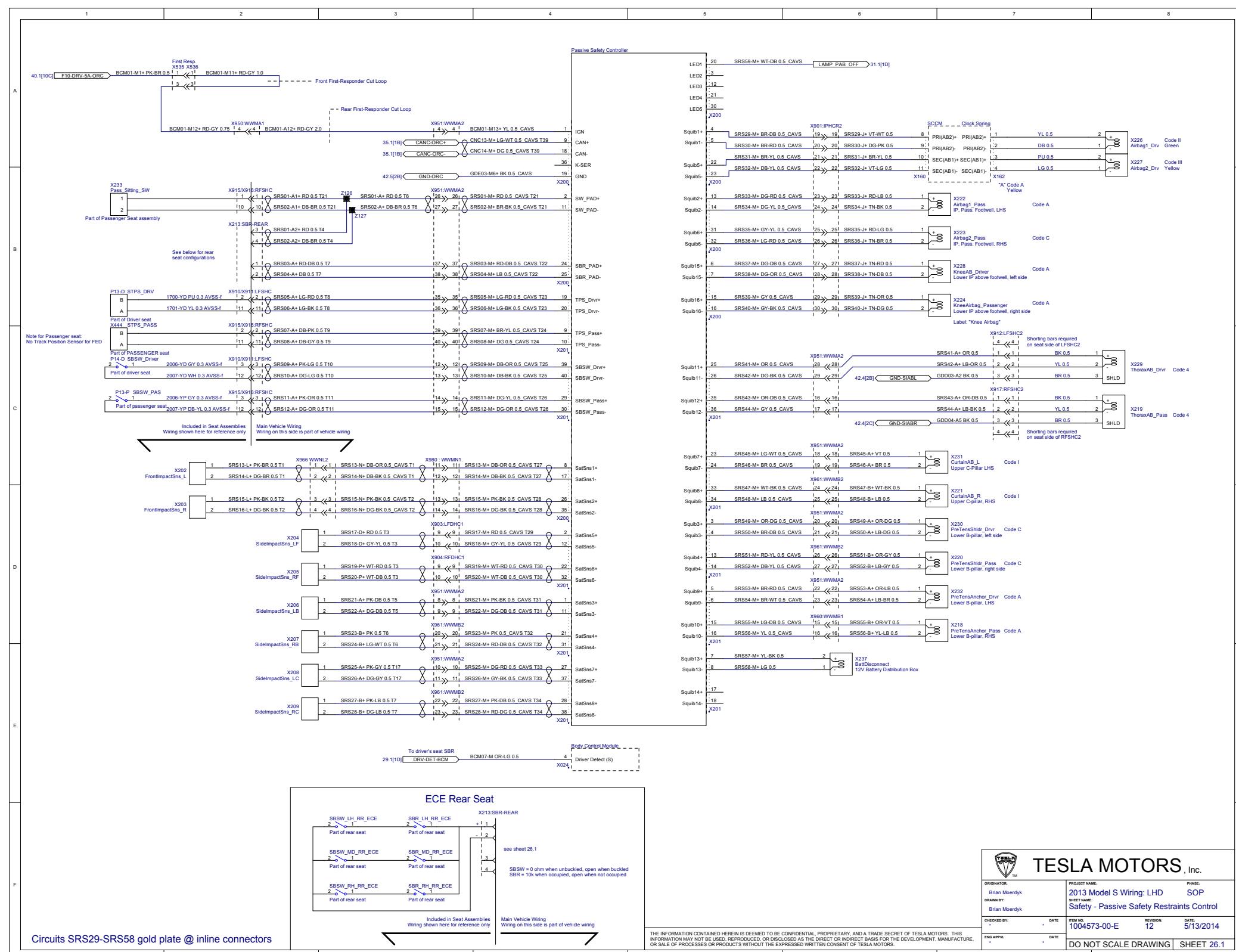












A

1

B

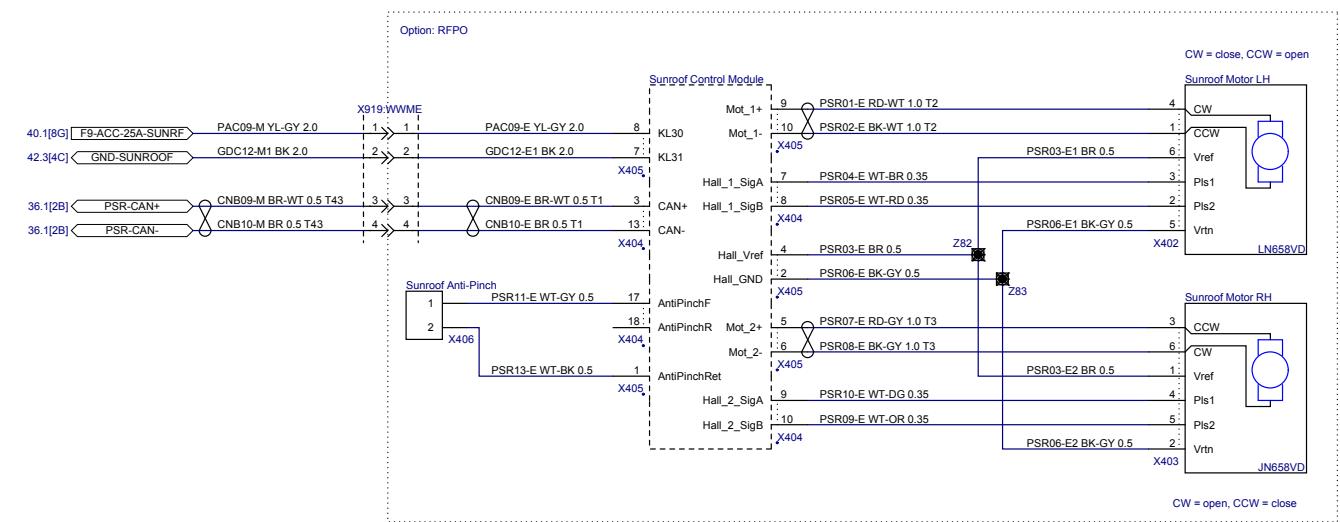
1

C

1

D

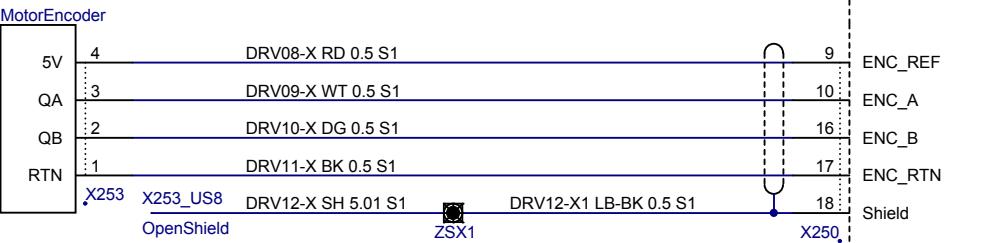
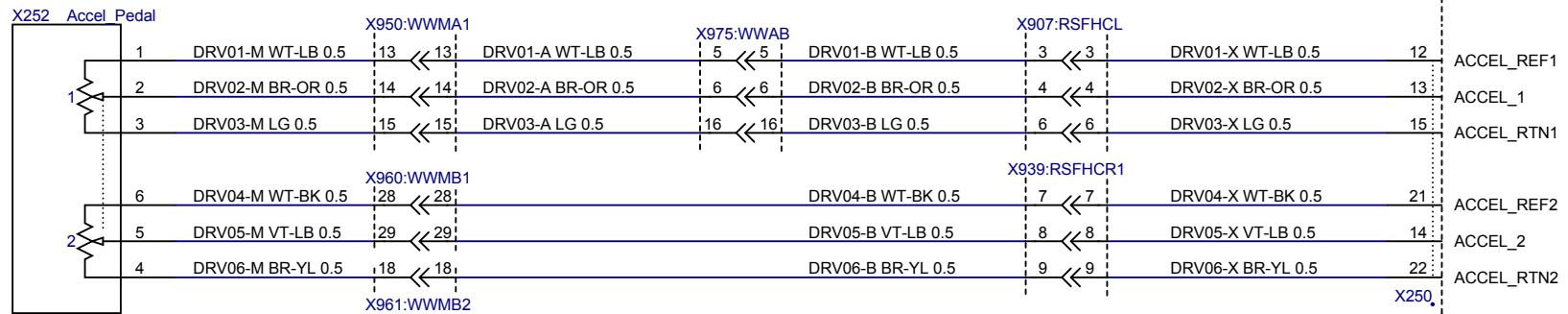
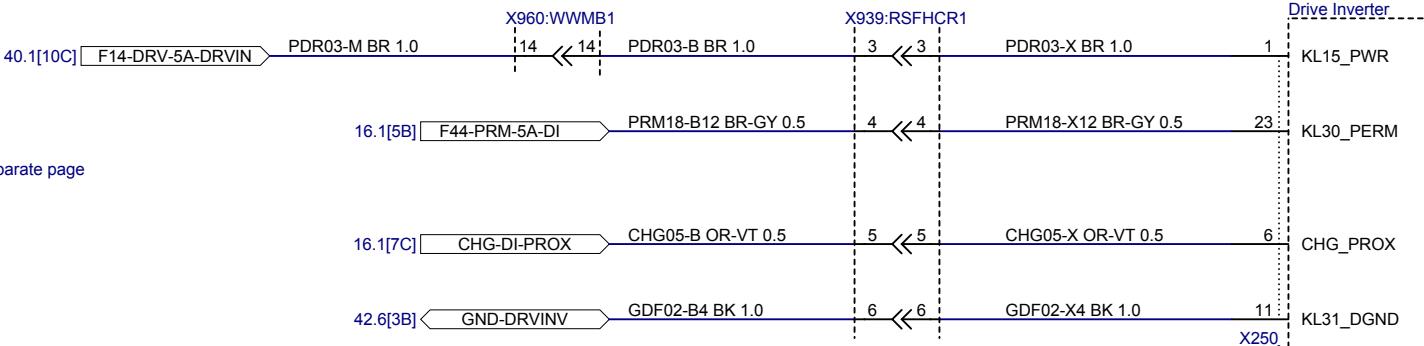
1



TESLA

PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Panoramic Sunroof	
ITEM NO. 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	
SHEET 27.1	

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCFSSFS, OR PROBNTS, WITHOUT THE EXPRESSED, WRITTEN, CONSENT, OF TESLA MOTORS.



X250, X253 SEALED shield terminations
SX1: shield termination splice. Drain wire is 22AWG

TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

PHASE:
SOP

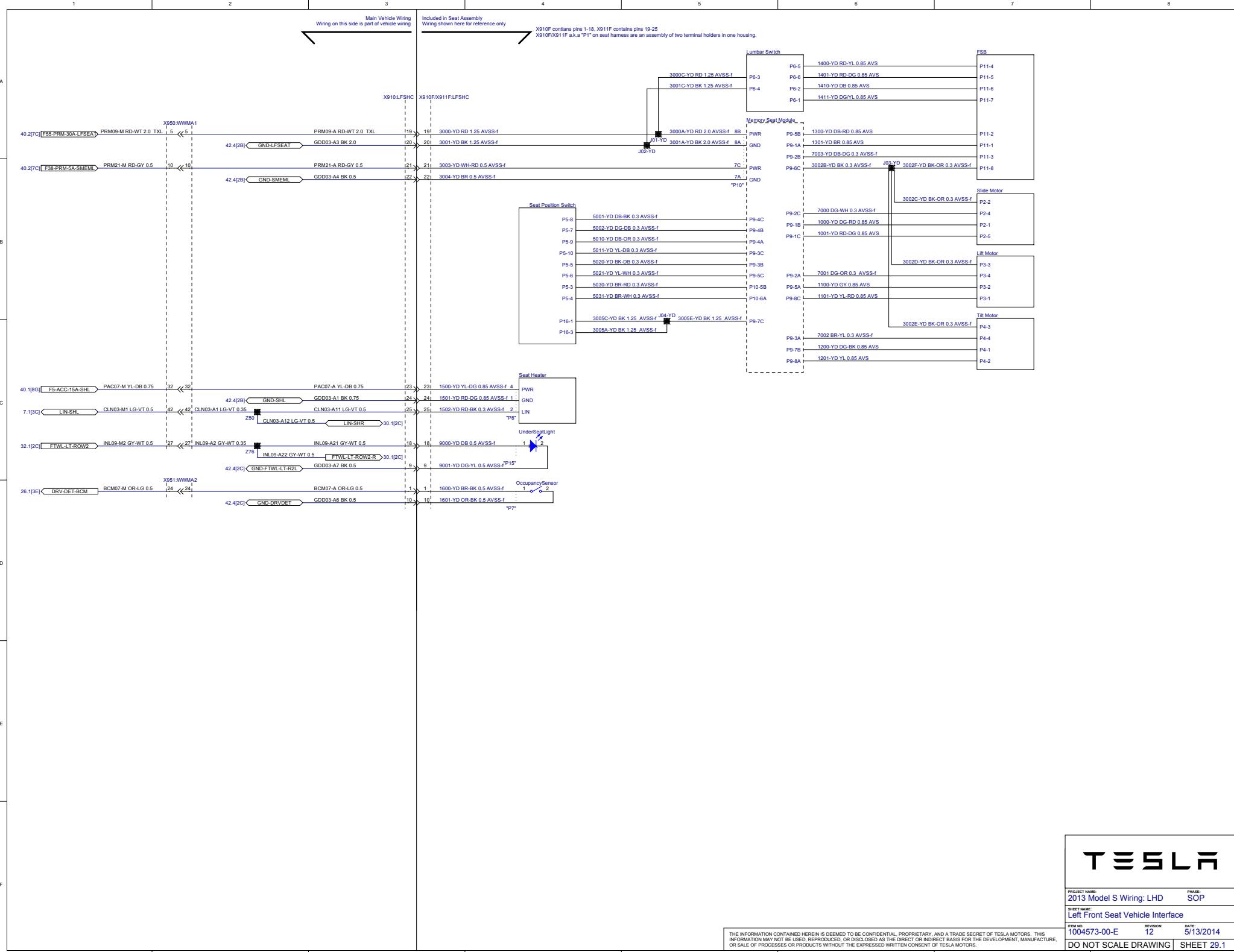
SHEET NAME:
Drive Inverter

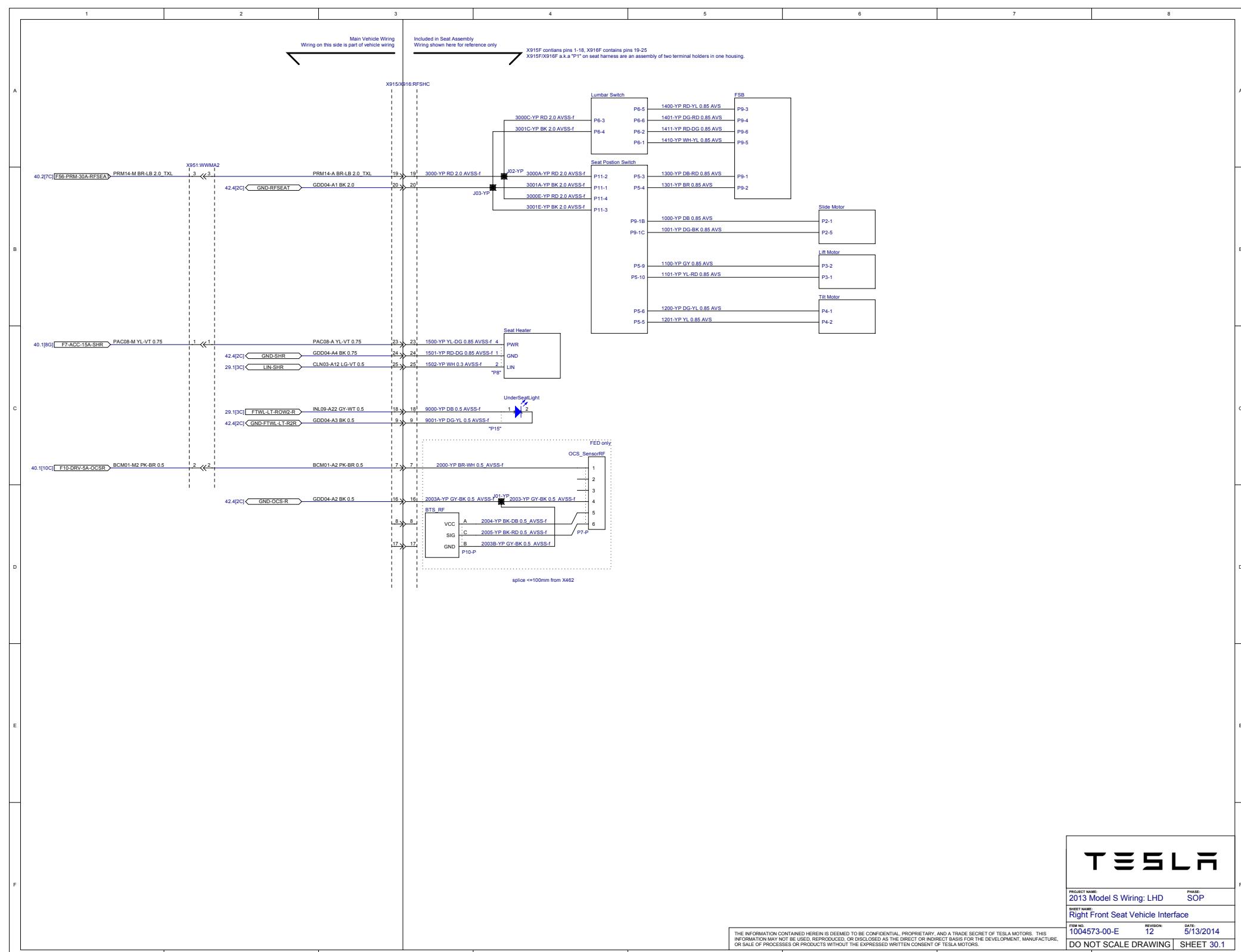
ITEM NO. **1004573-00-E** REVISION: **12** DATE: **5/13/2014**

DO NOT SCALE

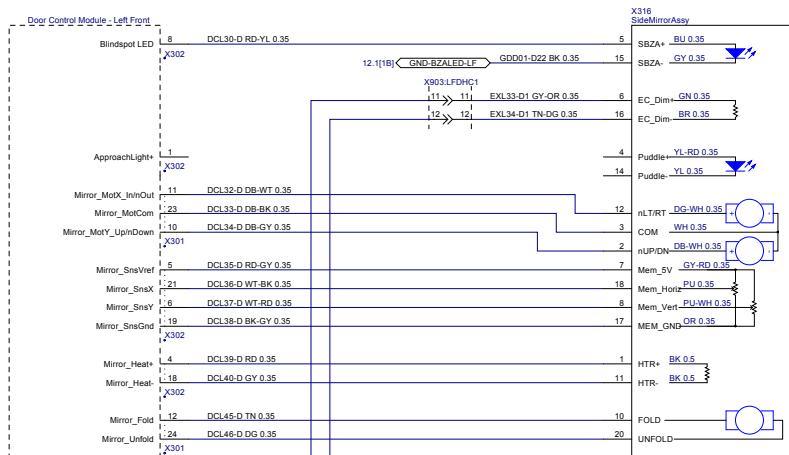
SHEET **28.1**

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.





A B C D E F

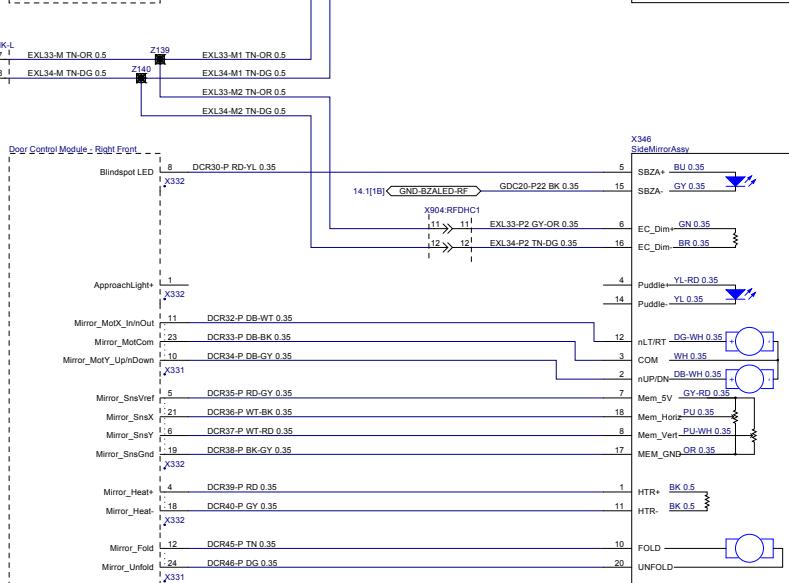


C

D

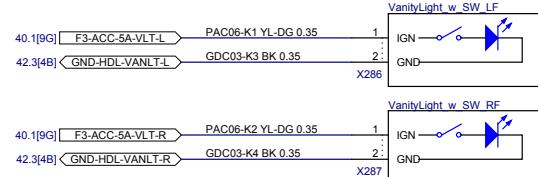
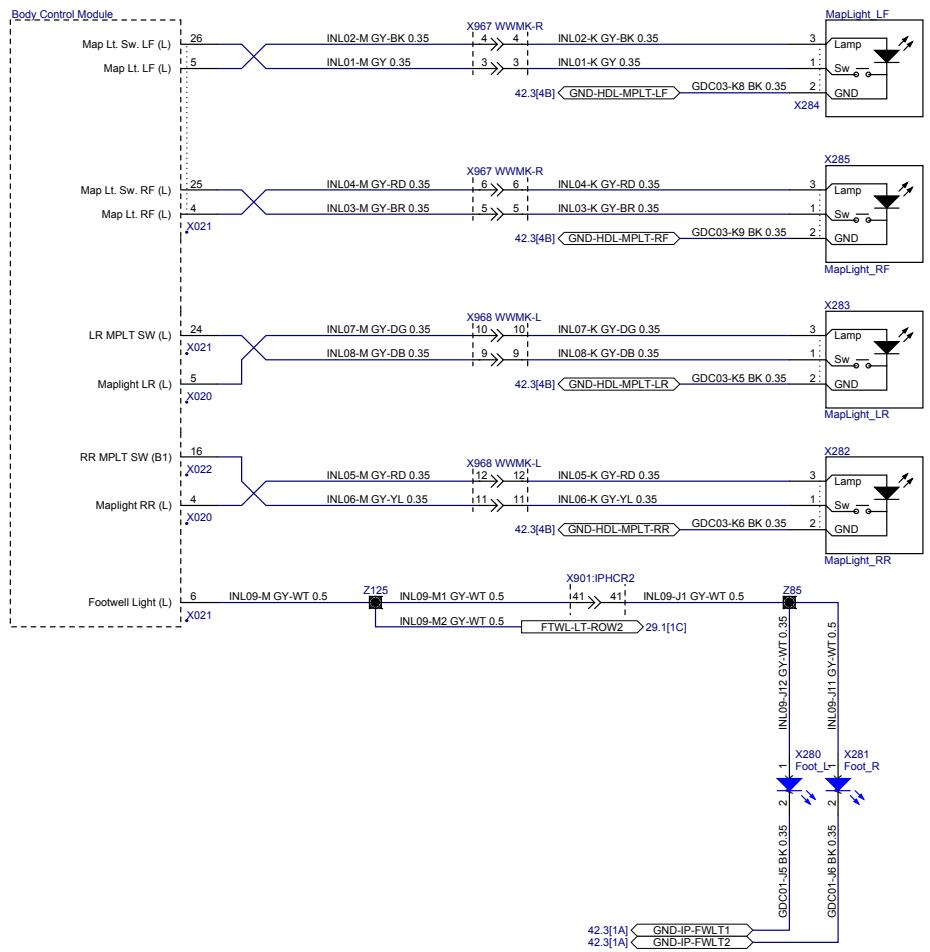
E

F



Mirror control commands come to the door control module via LIN from the central door switchpack module.
Mirror controls for the passenger side mirror are then passed over CAN to the passenger door control module.

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

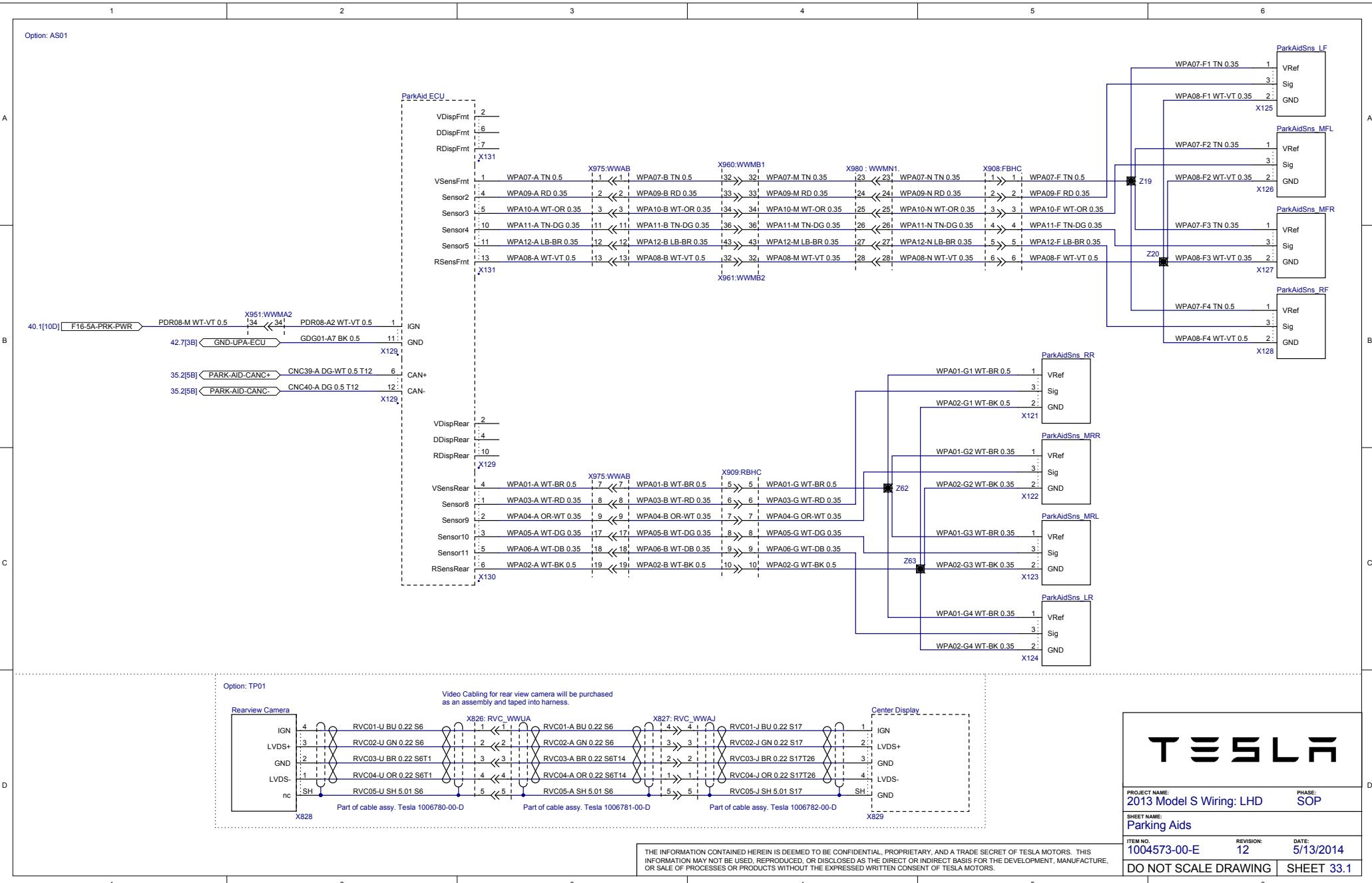


42.3[1A] GND-IP-FWLT1
42.3[1A] GND-IP-FWLT2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

PROJECT NAME: 2013 Model S Wiring: LHD
SHEET NAME: Interior Lighting - Maplights
ITEM NO. 1004573-00-E
REVISION: 12
DATE: 5/13/2014
DO NOT SCALE DRAWING
SHEET 32.1

TESLA



A

A

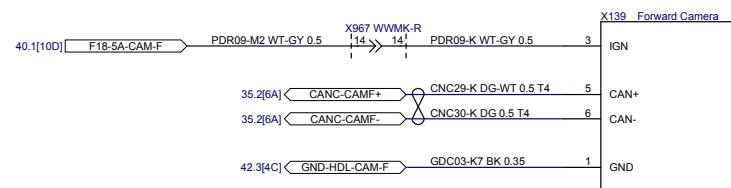
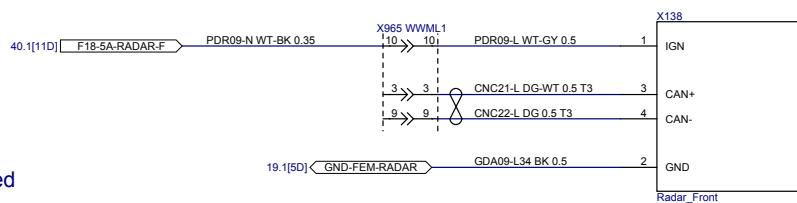
B

B

C

C

Function not supported

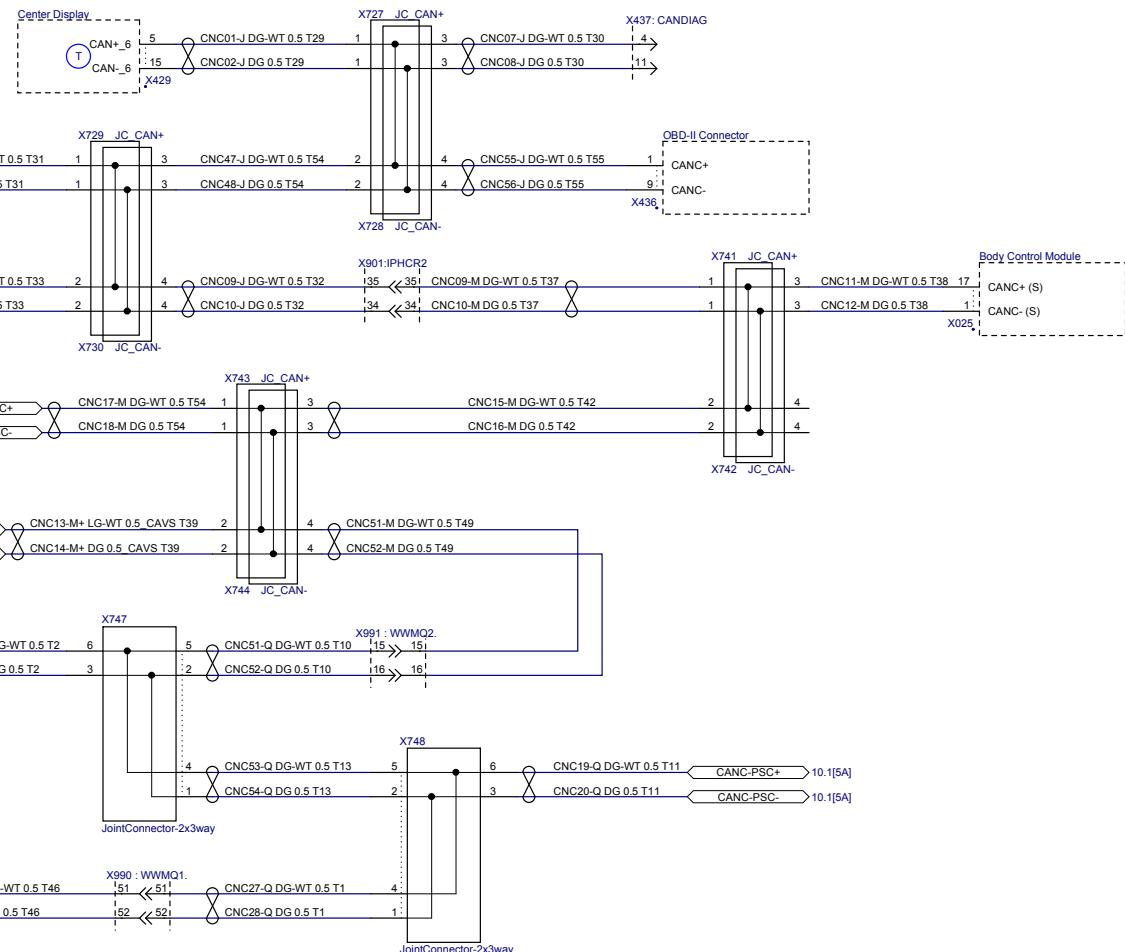


THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



TESLA MOTORS, Inc.

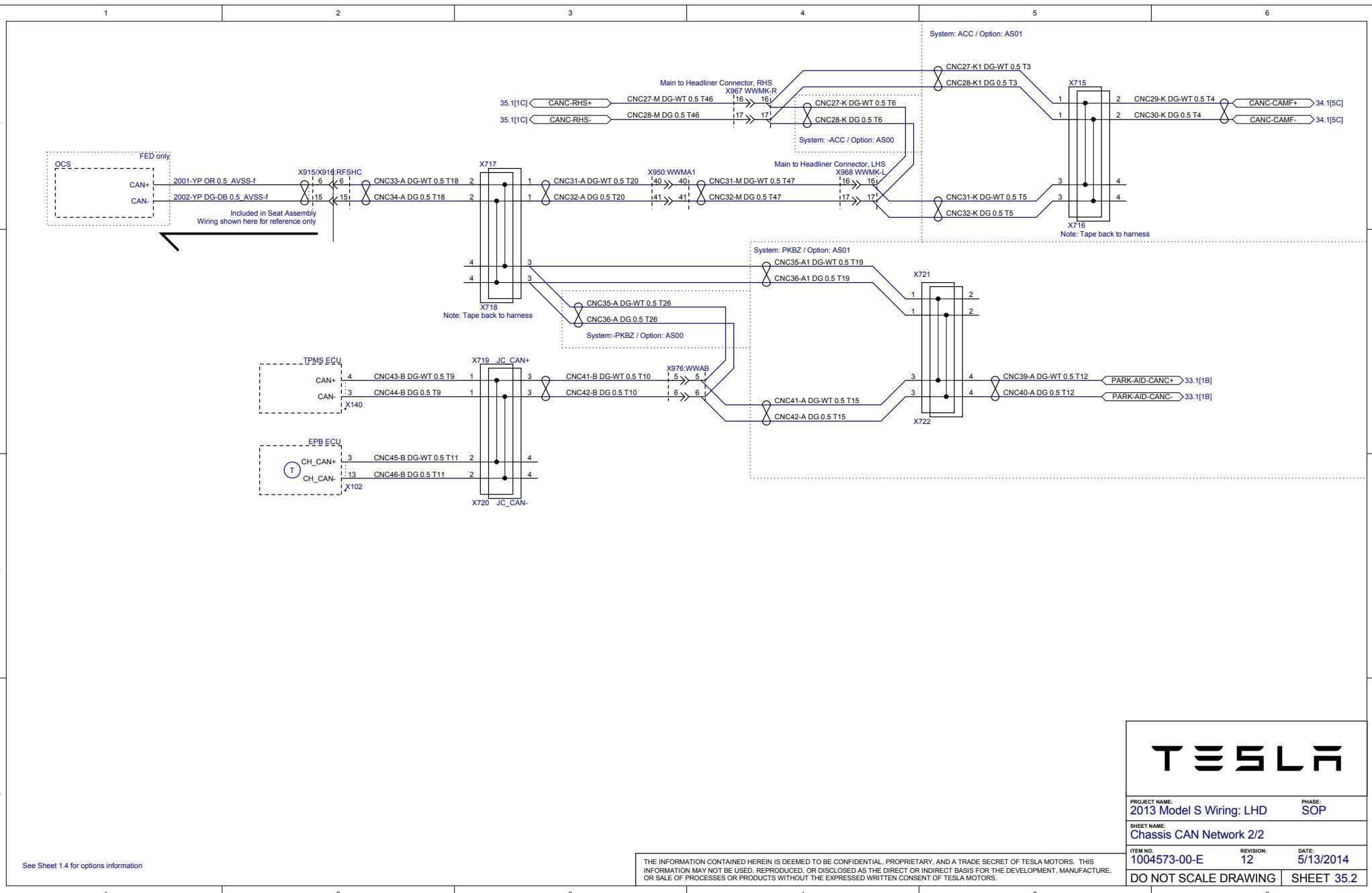
ORIGINATOR: B. Moerdyk	PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
DRAWN BY: B. Moerdyk	SHEET NAME: Advanced Safety - Blind Zone Assist	
CHECKED BY: * * *	ITEM NO. 1004573-00-E	REVISION: 12
ENG APPVL * * *	DATE 5/13/2014	DATE
DO NOT SCALE DRAWING	SHEET 34.1	

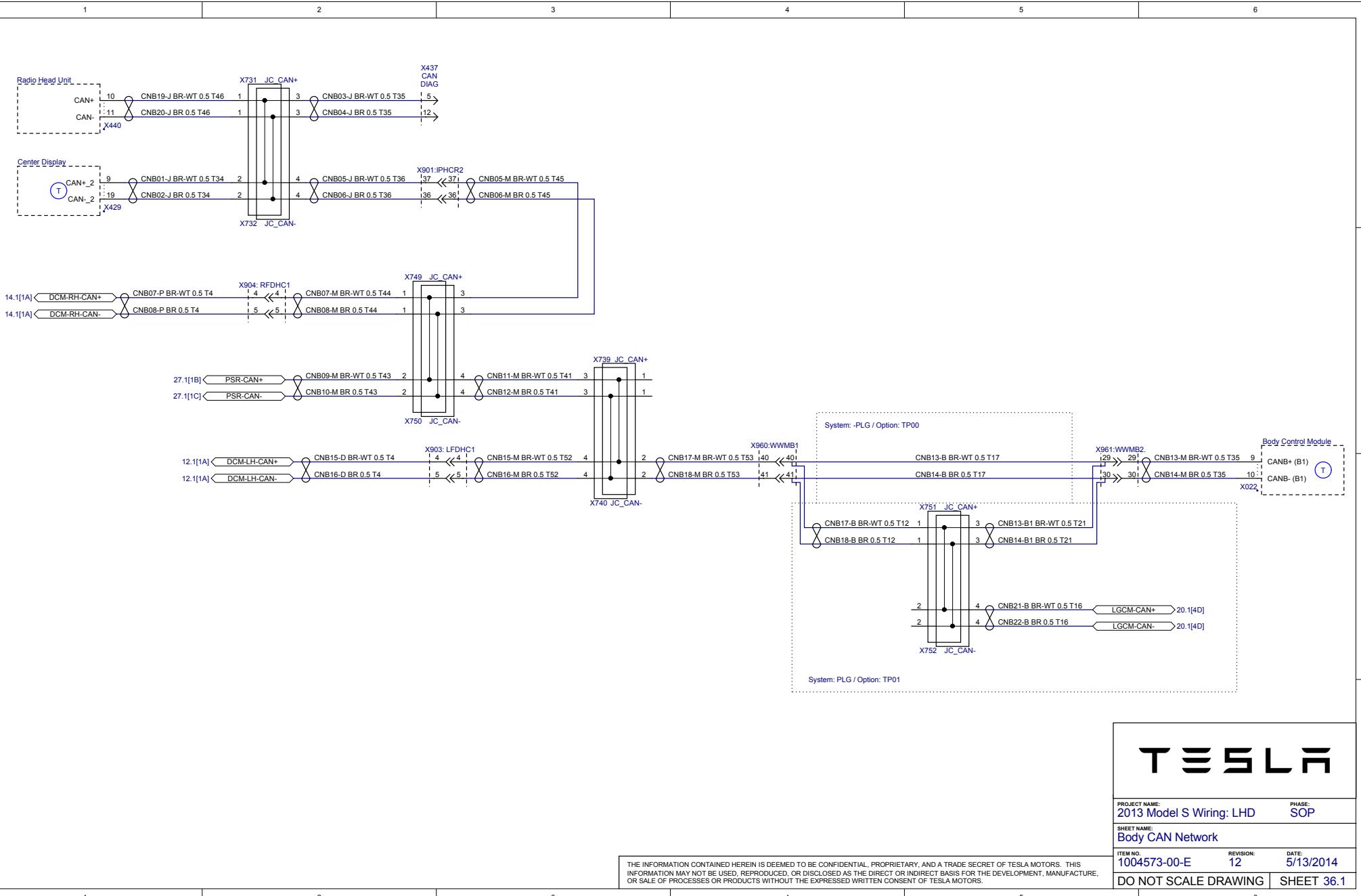


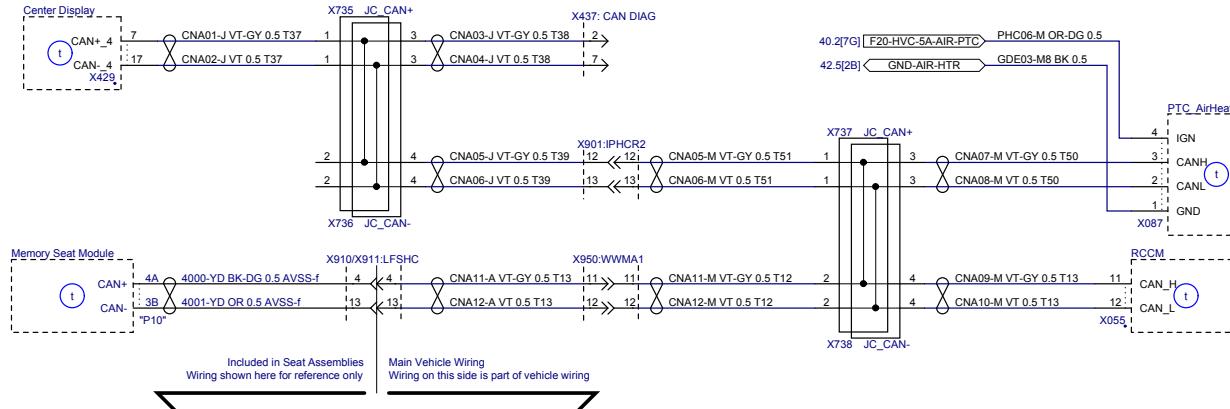
TESLA

PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP
 SHEET NAME: Chassis CAN Network 1/2
 ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014
 DO NOT SCALE DRAWING SHEET 35.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



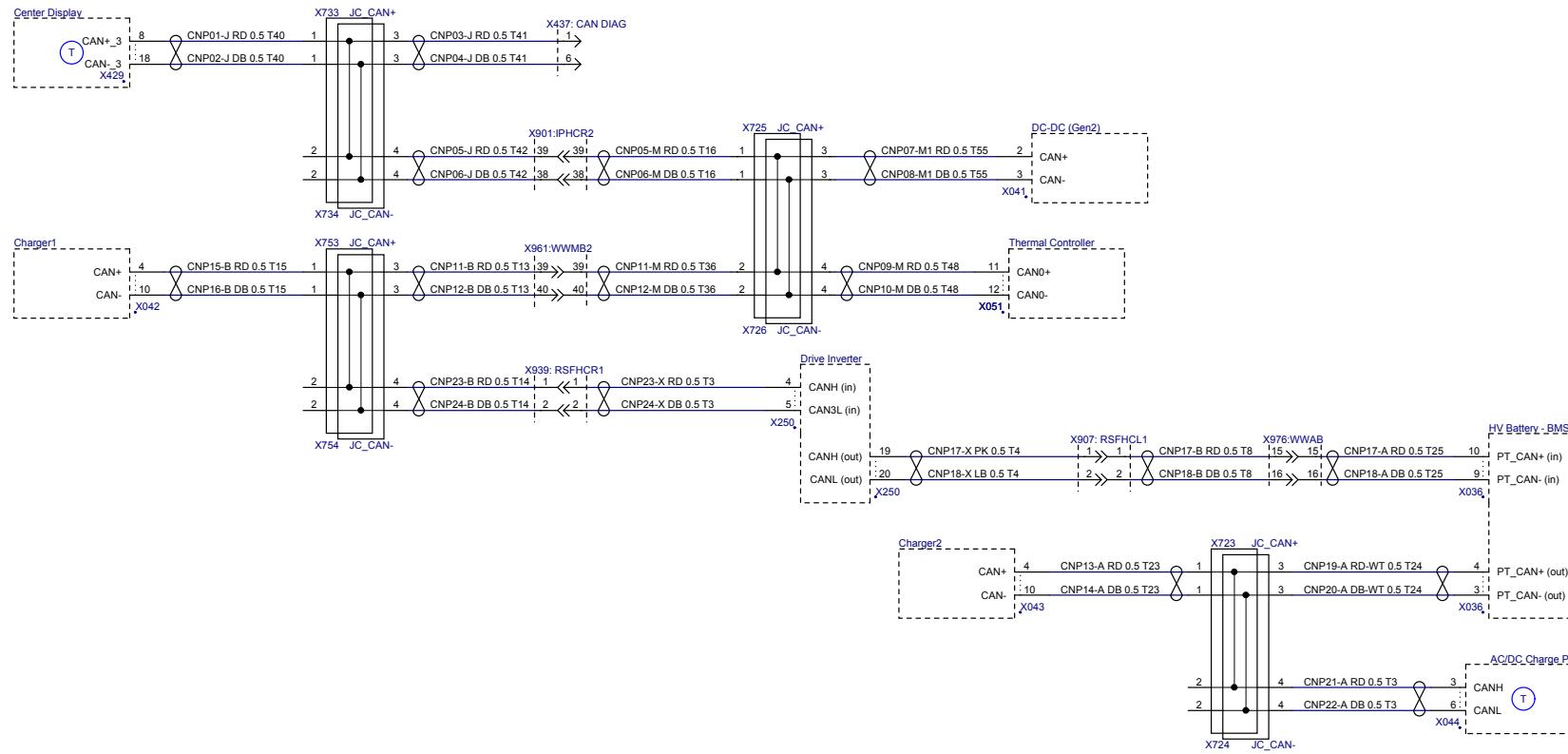




T E S L A

PROJECT NAME:	2013 Model S Wiring: LHD	PHASE:	SOP
SHEET NAME:			
Body FT CAN Network			
ITEM NO.	1004573-00-E	REVISION:	12
DATE:	5/13/2014		
DO NOT SCALE DRAWING		SHEET	37.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

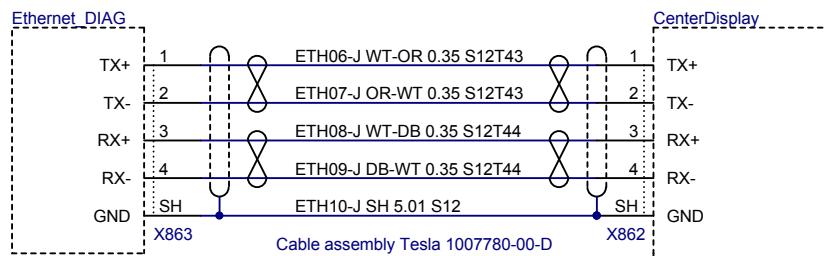


THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



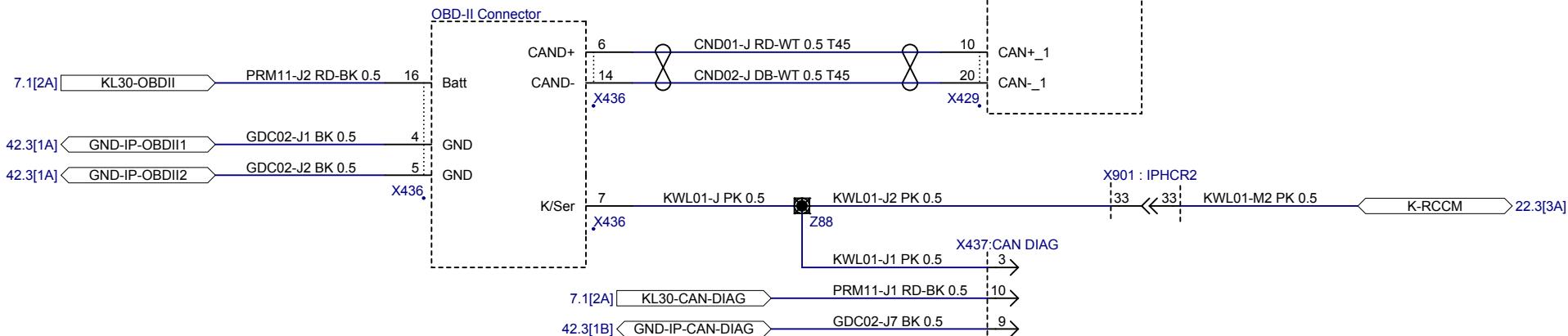
PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP
SHEET NAME: PT CAN Network 1
ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014
DO NOT SCALE DRAWING SHEET 38

A



A

B



B

C

C

D

D

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

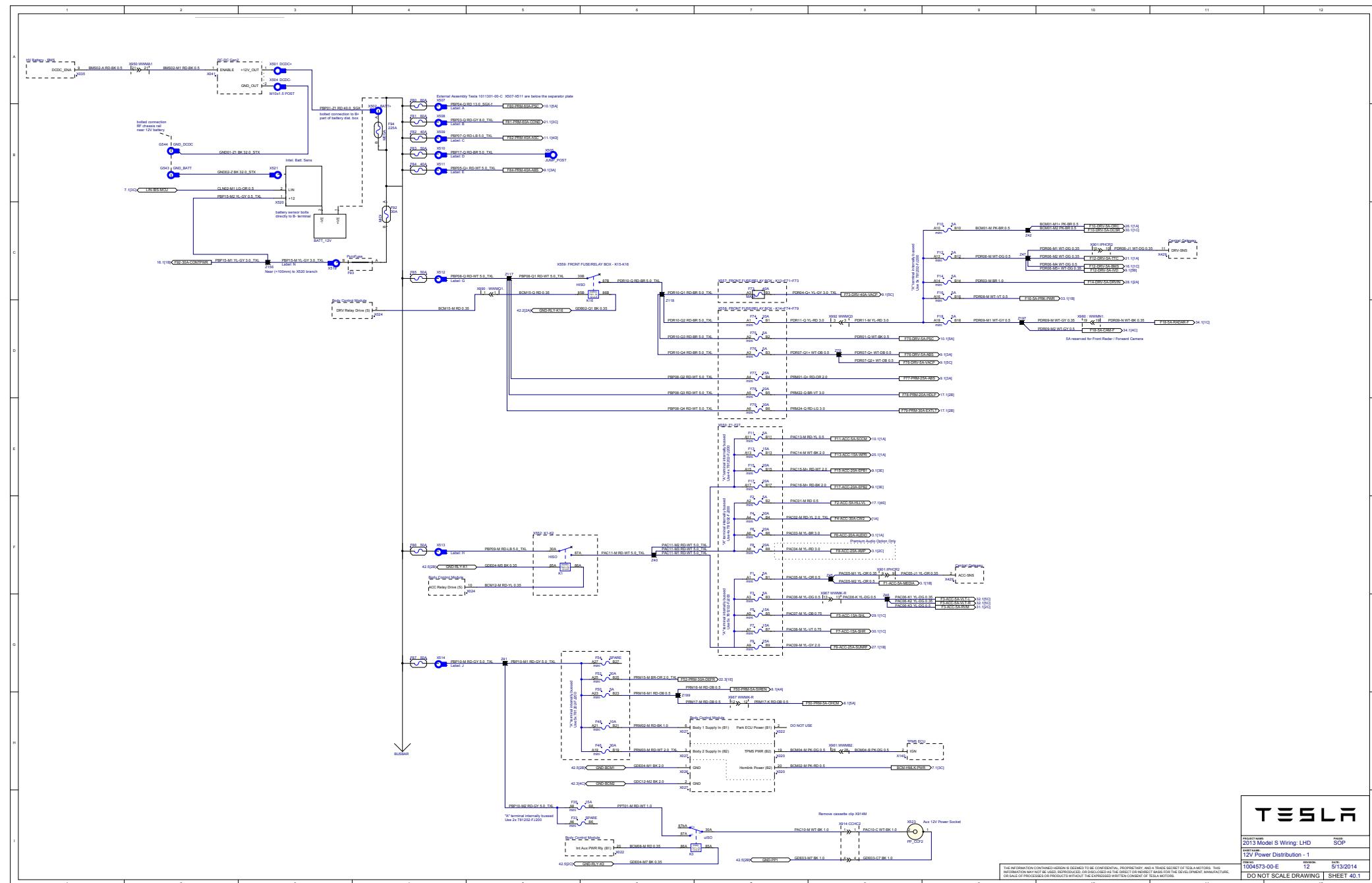
PHASE:
SOP

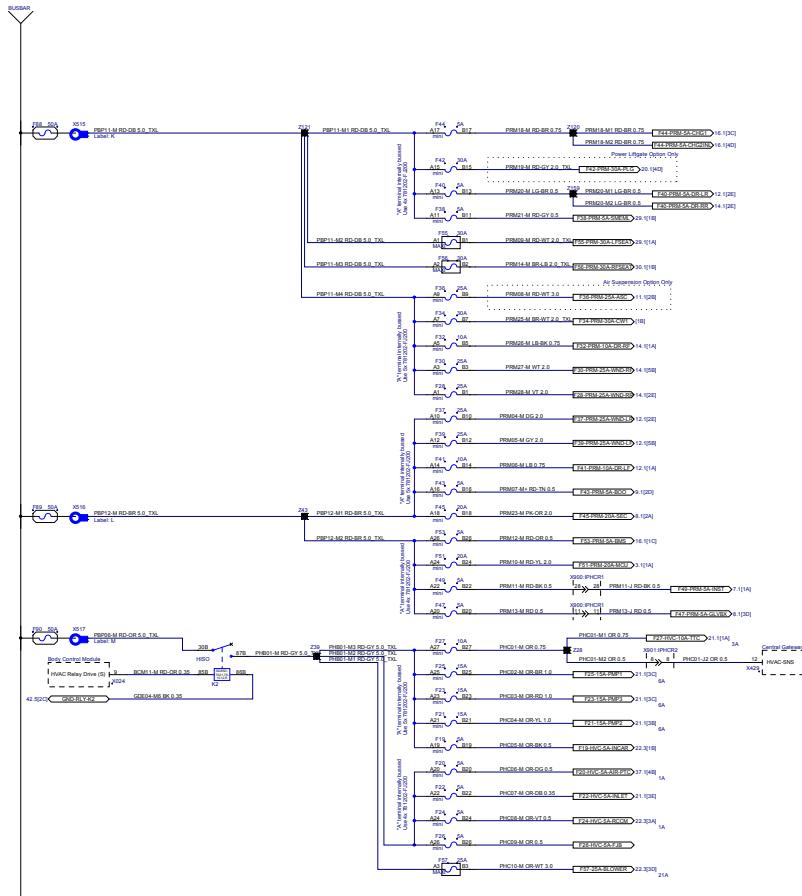
SHEET NAME:
Vehicle Diagnostic Connections

ITEM NO. **1004573-00-E** REVISION: **12** DATE: **5/13/2014**

DO NOT SCALE

SHEET 39.1





THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PRODUCTS OR SERVICES WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

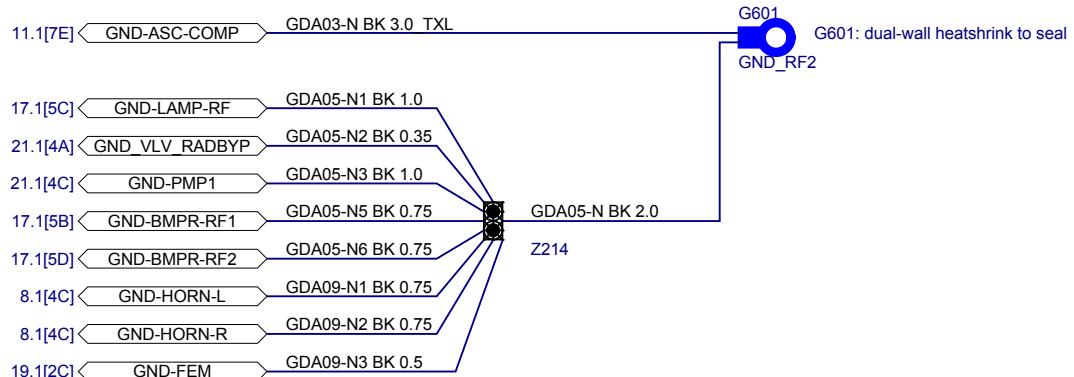
TESLA
 PROJECT NAME: 2013 Model S Wiring - LHD
 DRAWING NUMBER: 12V Power Distribution - 2
 DRAWING DATE: 04/05/2014
 SHEET NUMBER: 12
 SHEET TOTAL: 40
 DO NOT SCALE DRAWING | SHEET 40.2

RF Ground Point - Forward of Wheel

A

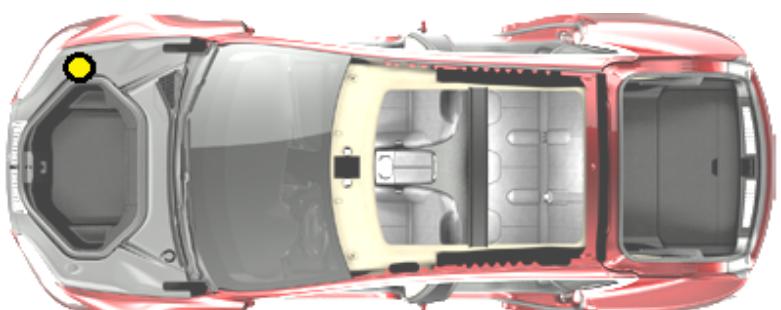


A



B

C



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

PHASE:
SOP

SHEET NAME:
Ground Distribution - Right Front

ITEM NO. **1004573-00-E** REVISION: **12** DATE: **5/13/2014**

DO NOT SCALE

SHEET 42.1

LF Ground Point - Forward of Wheel



G620: dual-wall heatshrink to seal

40.1[5D] GND-RLY-K16 GDB02-Q1 BK 0.35

21.1[3D] GND-RLY-K15 GDB02-Q2 BK 0.35

25.1[1C] GND-WSH-LVL GDB02-Q3 BK 0.35

25.1[4D] GND-WSH-PMP GDB02-Q4 BK 0.5

21.1[4C] GND-PMP3 GDB02-Q5 BK 1.0

25.1[3B] GND-WIPER GDB02-Q6 BK 1.0

17.1[5A] GND-SIDEREPLH GDB02-Q7 BK 0.5

25.1[3B] GND-WPR-PRK-RLY GDB02-Q8 BK 0.35

25.1[3B] GND-WPR-FST-RLY GDB02-Q9 BK 0.35

G621: dual-wall heatshrink to seal

G621 GND_LF

Z134

21.1[4B] GND-VLV-FOURWAY GDB03-Q1 BK 0.35

17.1[5B] GND-LAMP-LF GDB03-Q2 BK 1.0

21.1[4B] GND-PMP2 GDB03-Q3 BK 1.0

21.1[1B] GND-CL-BTL1 GDB03-Q4 BK 0.35

9.1[3D] GND-BRK-FL GDB03-Q5+ BK 0.35

21.1[4A] GND-VLV-CHILBYP GDB03-Q6 BK 0.35

8.1[4A] GND-SIREN GDB03-Q7 BK 0.5

GDB03-Q BK 2.0

Z135

9.1[6C] GND-VAC-PUMP GDB04-Q+ BK 3.0



G623: dual-wall heatshrink to seal

GND_LF

9.1[3C] GND-ABS1 GDB06-Q+ BK 2.0



G624: dual-wall heatshrink to seal

GND_LF

9.1[3C] GND-ABS2 GDB07-Q+ BK 3.0

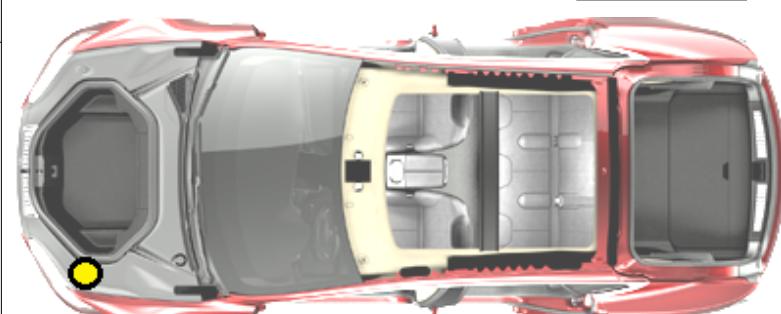


G625: dual-wall heatshrink to seal

GND_LF

External Assembly Tesla 1011301-00-C

10.1[5A] GND-PSC GDB05-Q BK 13.0 SGX-f



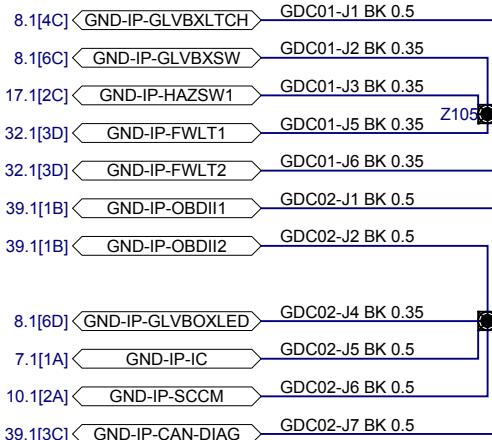
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

T E S L A

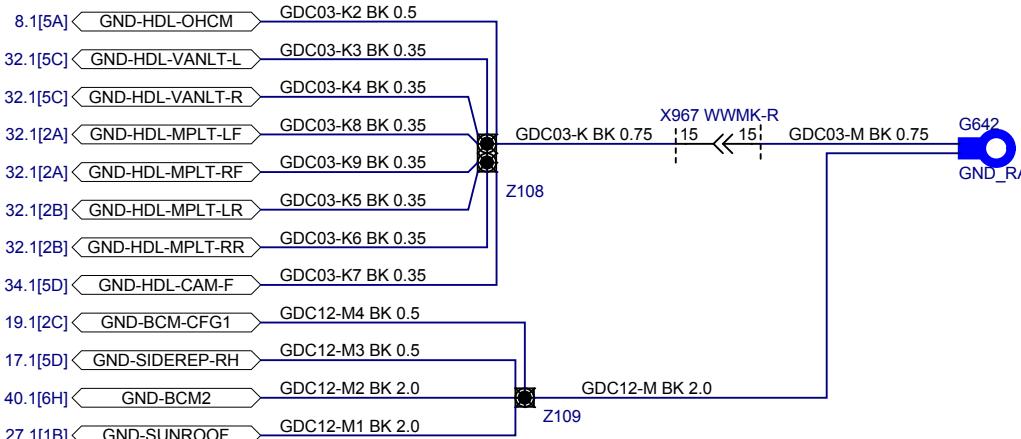
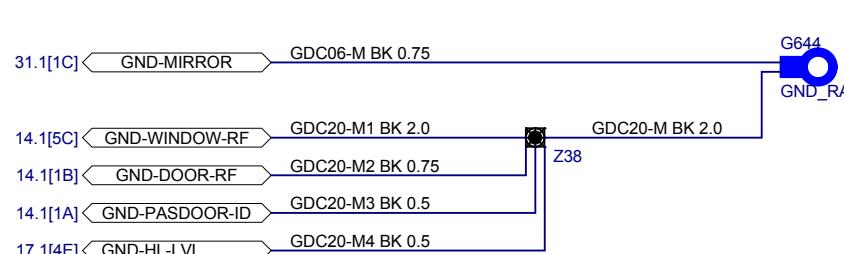
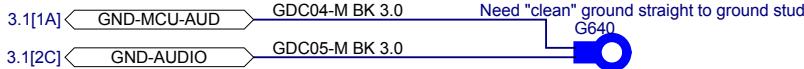
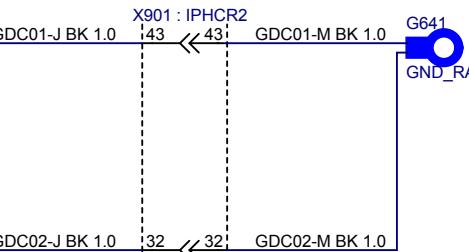
PROJECT NAME:
2013 Model S Wiring: LHDPHASE:
SOPSHEET NAME:
Ground Distribution - Left FrontITEM NO.
1004573-00-EREVISION:
12DATE:
5/13/2014

DO NOT SCALE

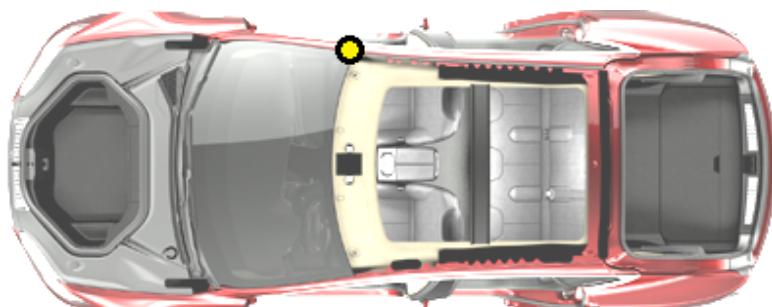
SHEET 42.2



RH A-pillar Ground Point



MAIN Body Harness



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

PHASE:
SOP

SHEET NAME:
Ground Distribution - RHS A-Pillar

ITEM NO. **1004573-00-E** REVISION: **12** DATE: **5/13/2014**

DO NOT SCALE

SHEET 42.3

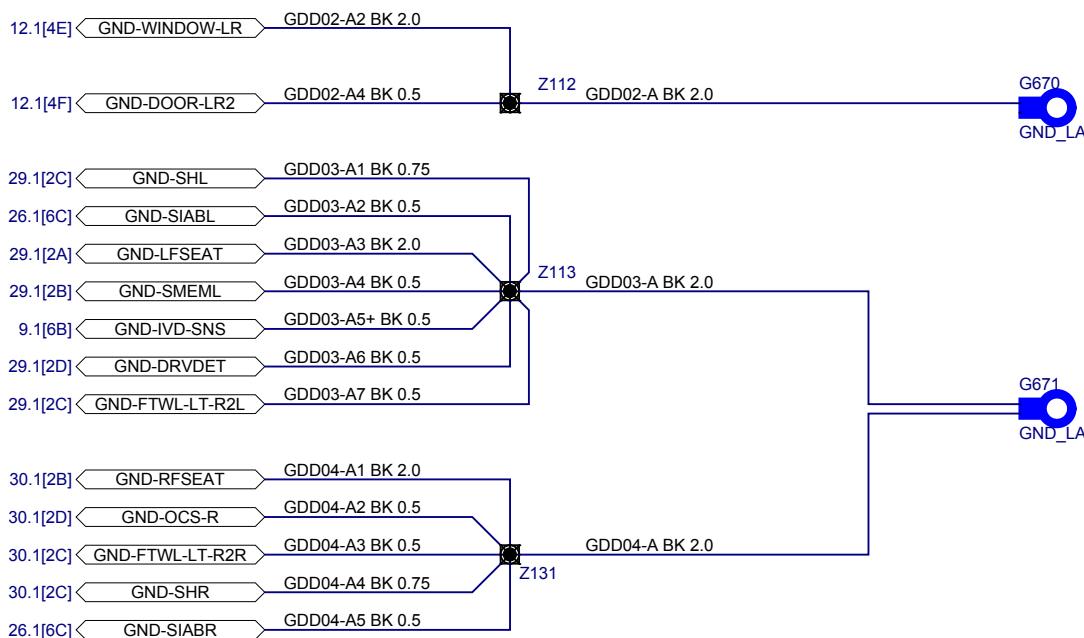
LH A-pillar Ground Point

A

A

MAIN Body Harness

LEFT Body Harness



B

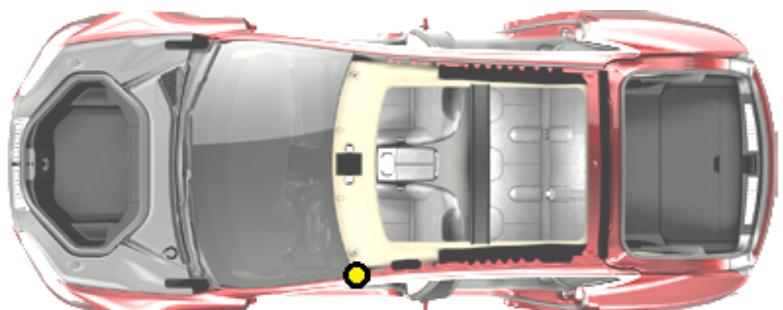
B

C

C

D

D



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

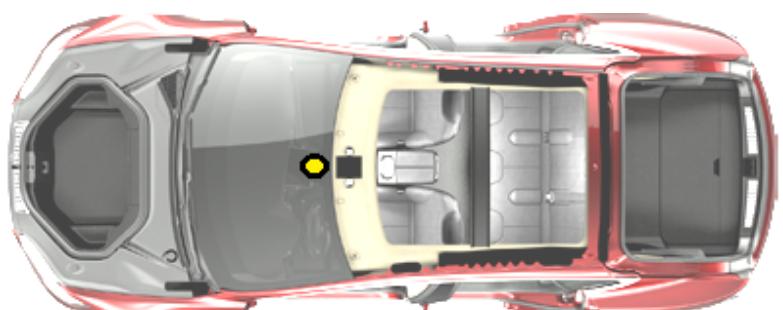
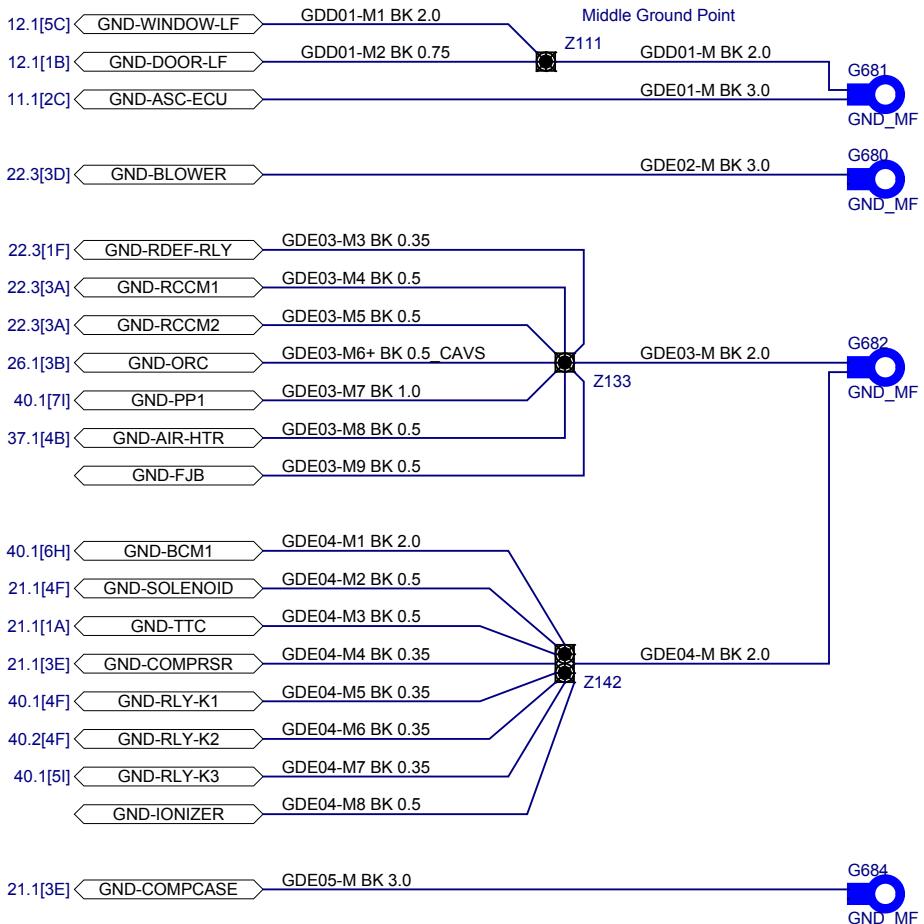
PHASE:
SOP

SHEET NAME:
Ground Distribution - LHS A-pillar

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE

SHEET 42.4



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA

PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP
 SHEET NAME: Ground Distribution - Lower Center Stack
 ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014
 DO NOT SCALE SHEET 42.5

RR Ground Point - Behind Wheel

A

A

B

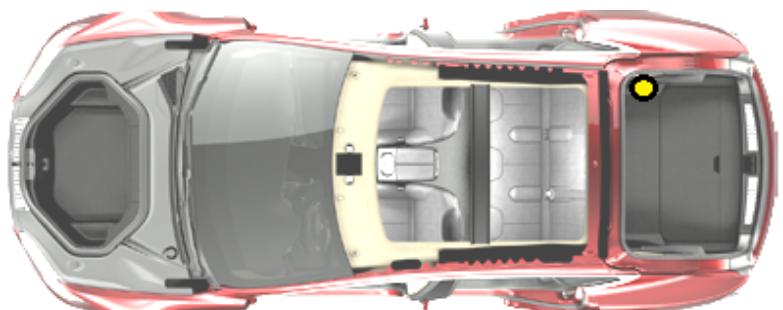
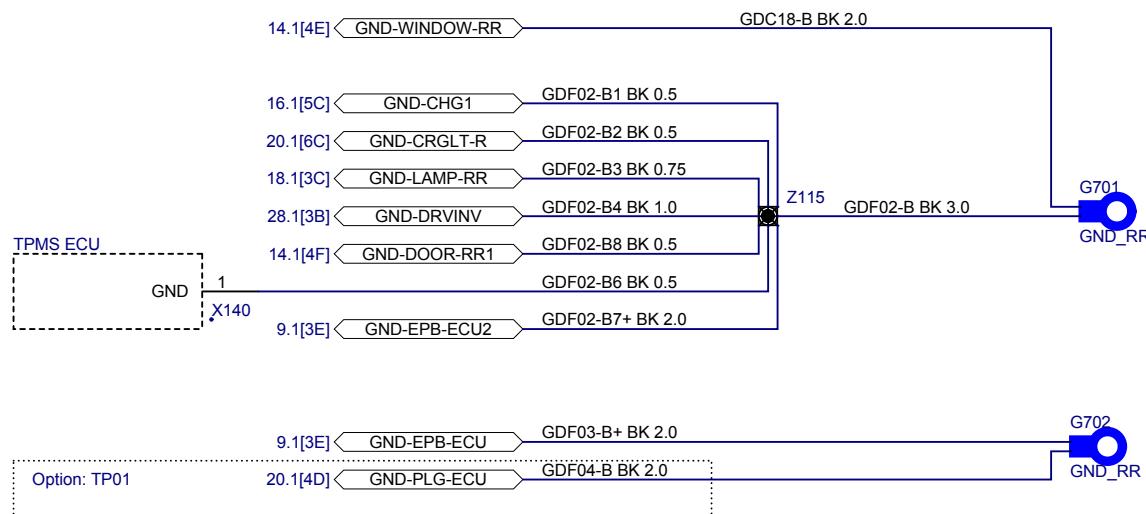
B

C

C

D

D



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

PHASE:
SOP

SHEET NAME:
Ground Distribution - Right Rear

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE

SHEET 42.6

LR Ground Point - Behind Wheel

A

A

B

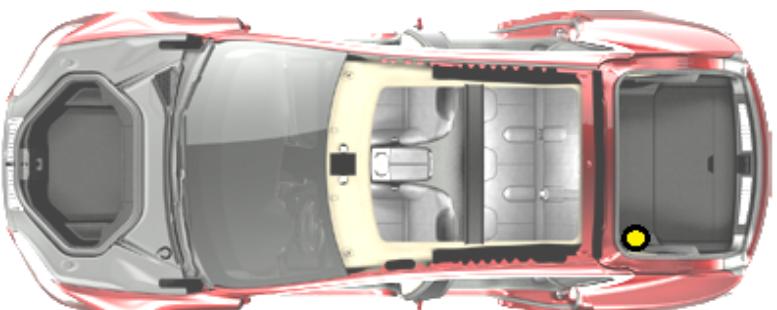
B

C

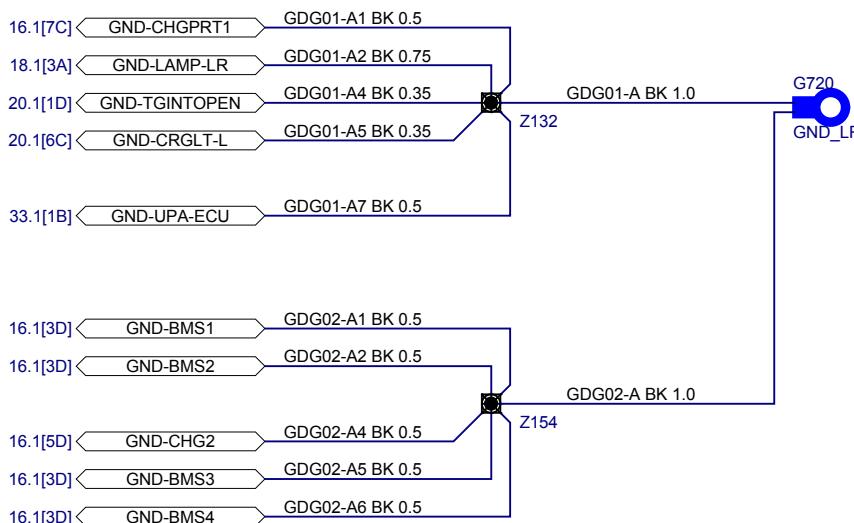
C

D

D



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

PHASE:
SOP

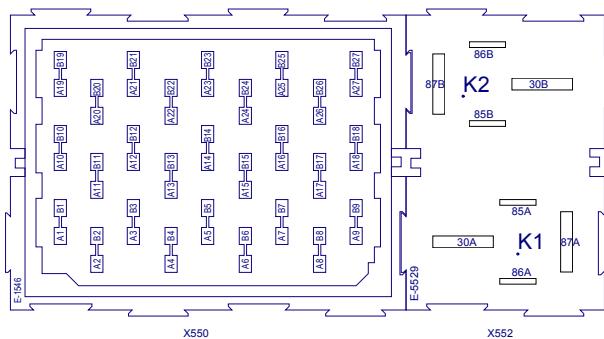
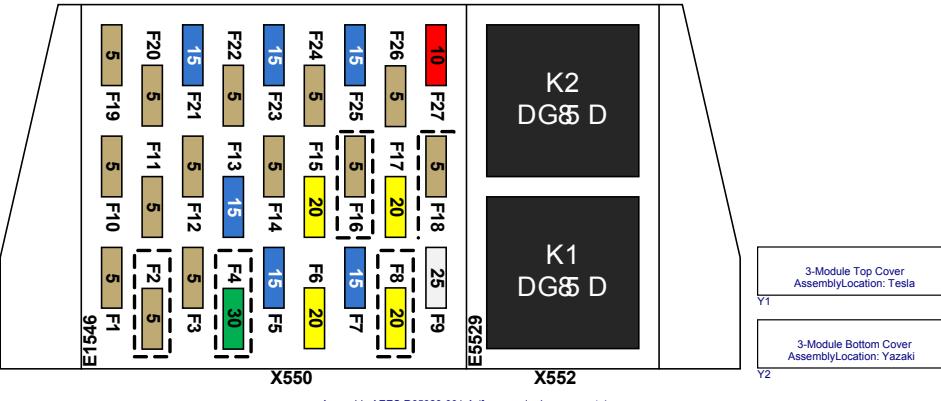
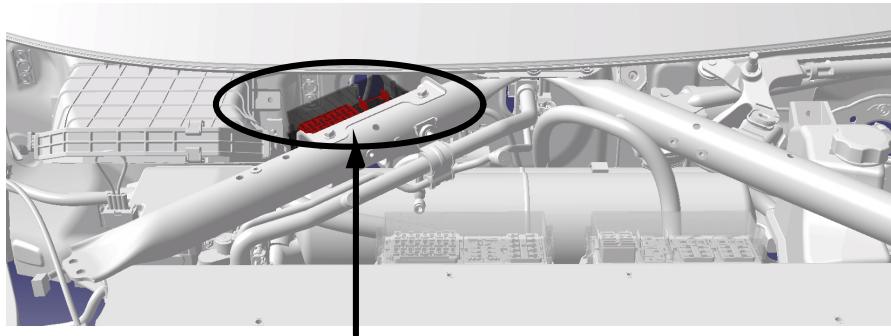
SHEET NAME:
Ground Distribution - Left Rear

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE

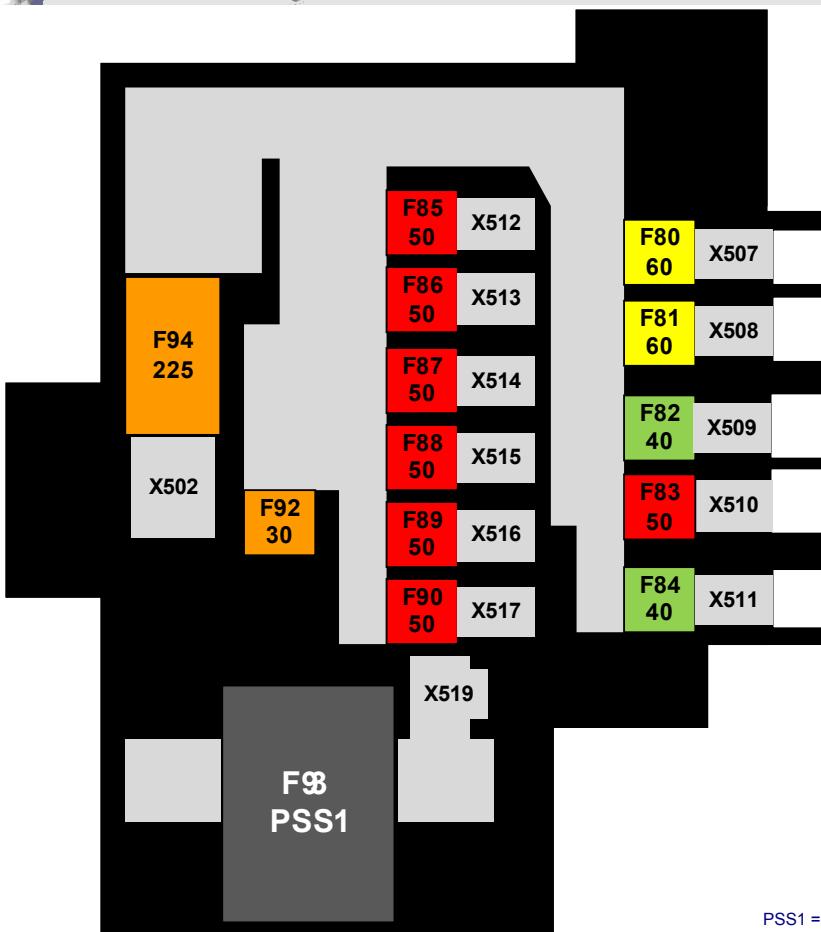
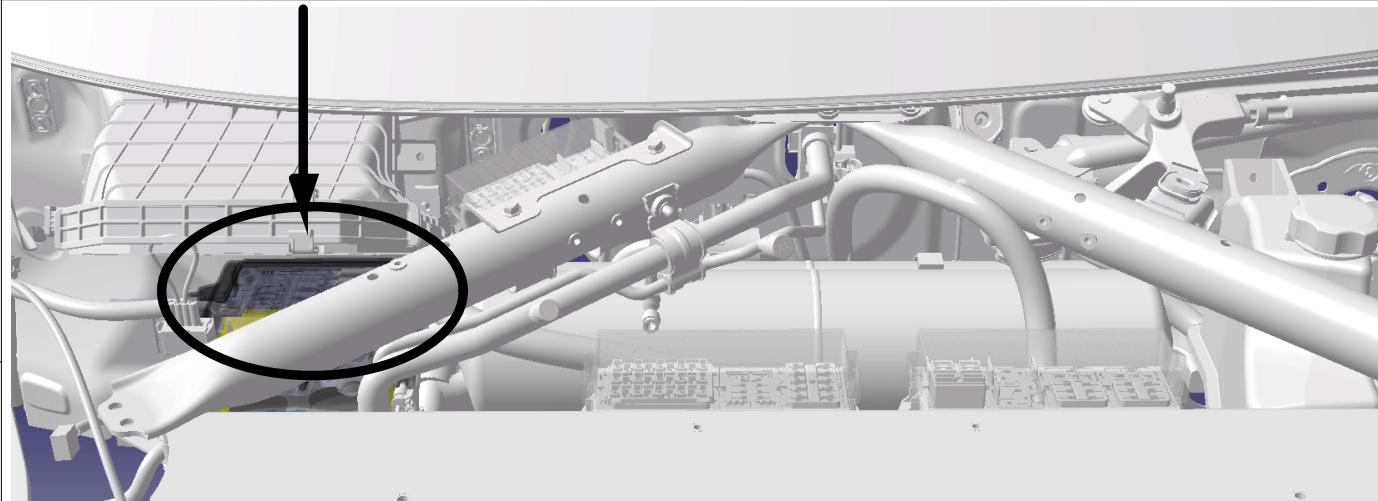
SHEET 42.7

1	2	3	4	5	6
Des. Function	Option				
F1 ACC sense, Radio	ALL				
F2 Headlamp leveling	HLVL				
F3 Vanity Lights, Rear View Mirror	ALL				
F4 Cold Weather Package Group 1	CW01				
F5 Seat Heater, Left Front	ALL				
F6 Base Audio Amplifier	ALL				
F7 Seat Heater, Right Front	ALL				
F8 Premium Audio Amplifier	ALL				
F9 Panoramic Sunroof	ALL				
F10 Passive Safety Restraints	ALL				
F11 Steering Column Controls	ALL				
F12 Drive Power / Yaw Rate Sense	ALL				
F13 Wiper Park	ALL				
F14 Drive Inverter	ALL				
F15 Electric Park Brake	ALL				
F16 Parking System	PKA,BZA				
F17 Electric Park Brake	ALL				
F18 not used	ACC				
F19 AQS / In-car sensor	ALL				
F20 Cabin Air Heater Logic	ALL				
F21 Coolant Pump 2	ALL				
F22 Inlet Actuators	ALL				
F23 Coolant Pump 3	ALL				
F24 Cabin Climate Control	ALL				
F25 Coolant Pump 1	ALL				
F26 Coolant Heater Logic	ALL				
F27 Thermal Controller	ALL				
K1 ACC Power Switch	ALL				
K2 HVAC Power Switch	ALL				



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA
 PROJECT NAME: 2013 Model S Wiring: LHD
 SHEET NAME: "Cabin" Fusebox 1 Layout
 ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014
 DO NOT SCALE DRAWING SHEET 44.2



PSS1 = TPN 1004635-00-A

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

Loc.	Description / Function	Type	Des.
F80	Power Steering	MIDI	X507
F81	Condenser Fans Master Fuse	MIDI	X508
F82	Air Suspension Compressor	MIDI	X509
F83	Jump Post	MIDI	X510
F84	ABS Motor	MIDI	X511
F85	Drive 12V Power Master Fuse	MIDI	X512
F86	ACC 12V Bus Master Fuse	MIDI	X513
F87	Permanent Power Group 1	MIDI	X514
F88	Permanent Power Group 2	MIDI	X515
F89	Permanent Power Group 3	MIDI	X516
F90	HVAC 12V Bus Master Fuse	MIDI	X517
F92	Contactor Power	MIDI	X503
F93	BDS: Contactor Power Cutoff	PSS1	X519
F94	Battery-DCDC Master Fuse	MEGA	X502

TESLA

PROJECT NAME:
2013 Model S Wiring: LHD

PHASE:
SOP

SHEET NAME:
Battery-Mounted Fusebox Layout

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE

SHEET 44.4